

THE
ARCHITECT
& BUILDING NEWS

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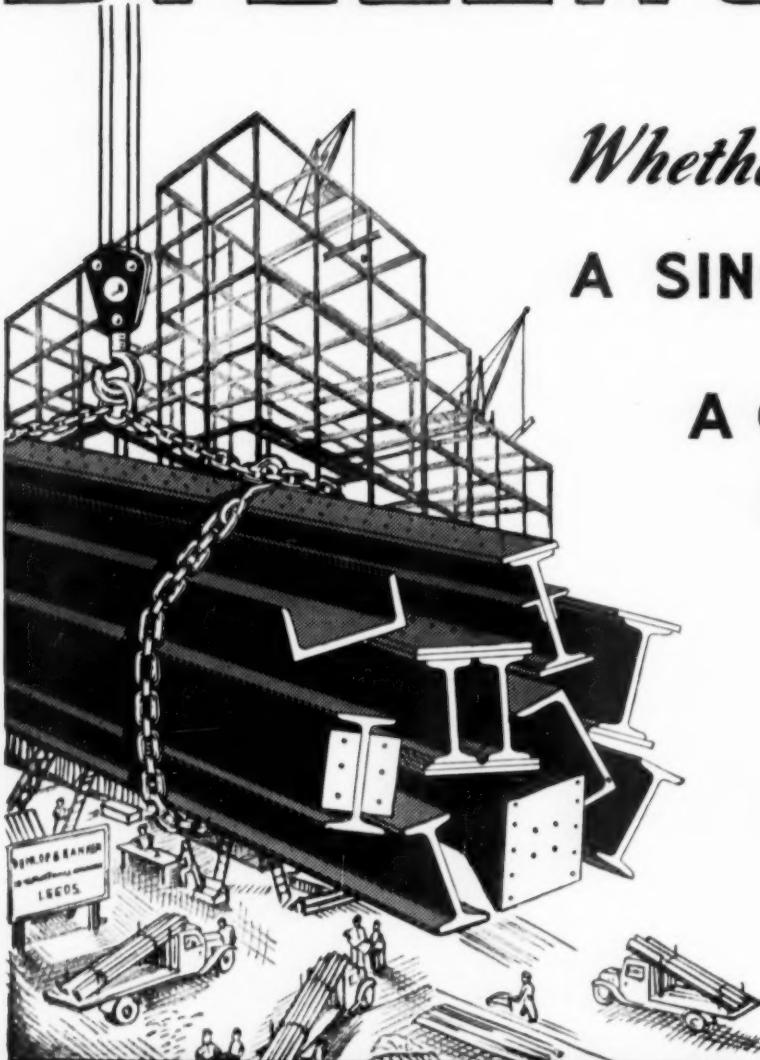
VOL 206

No. 9

ONE SHILLING WEEKLY

- WOLVERHAMPTON CREMATORIUM
- DOWNER SECONDARY GRAMMAR SCHOOL, HARROW
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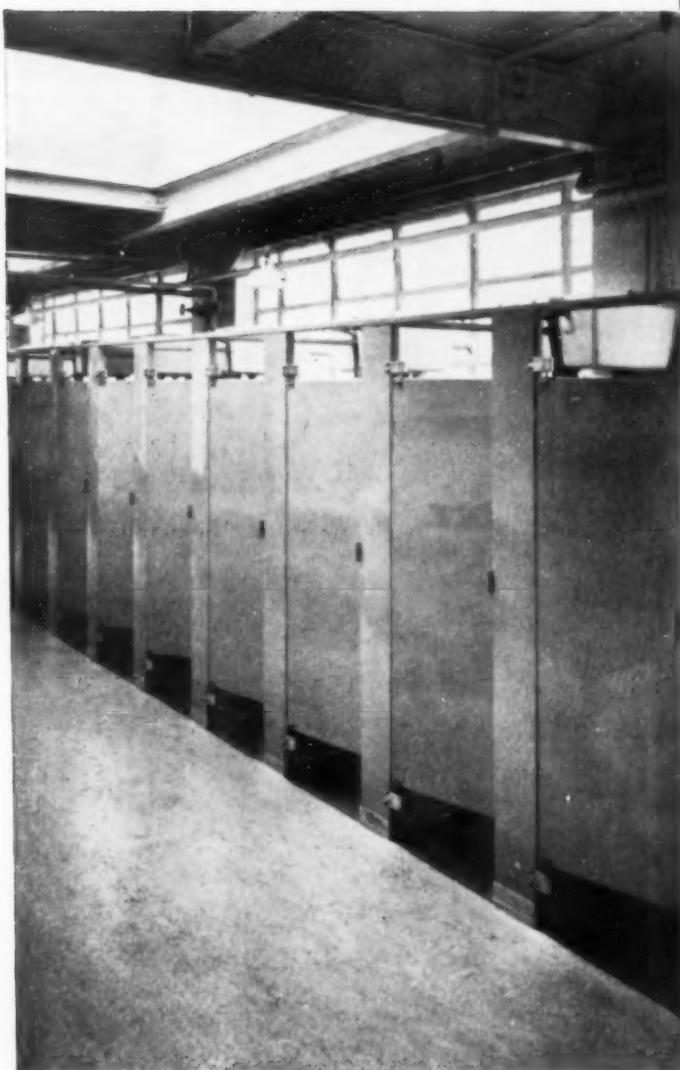
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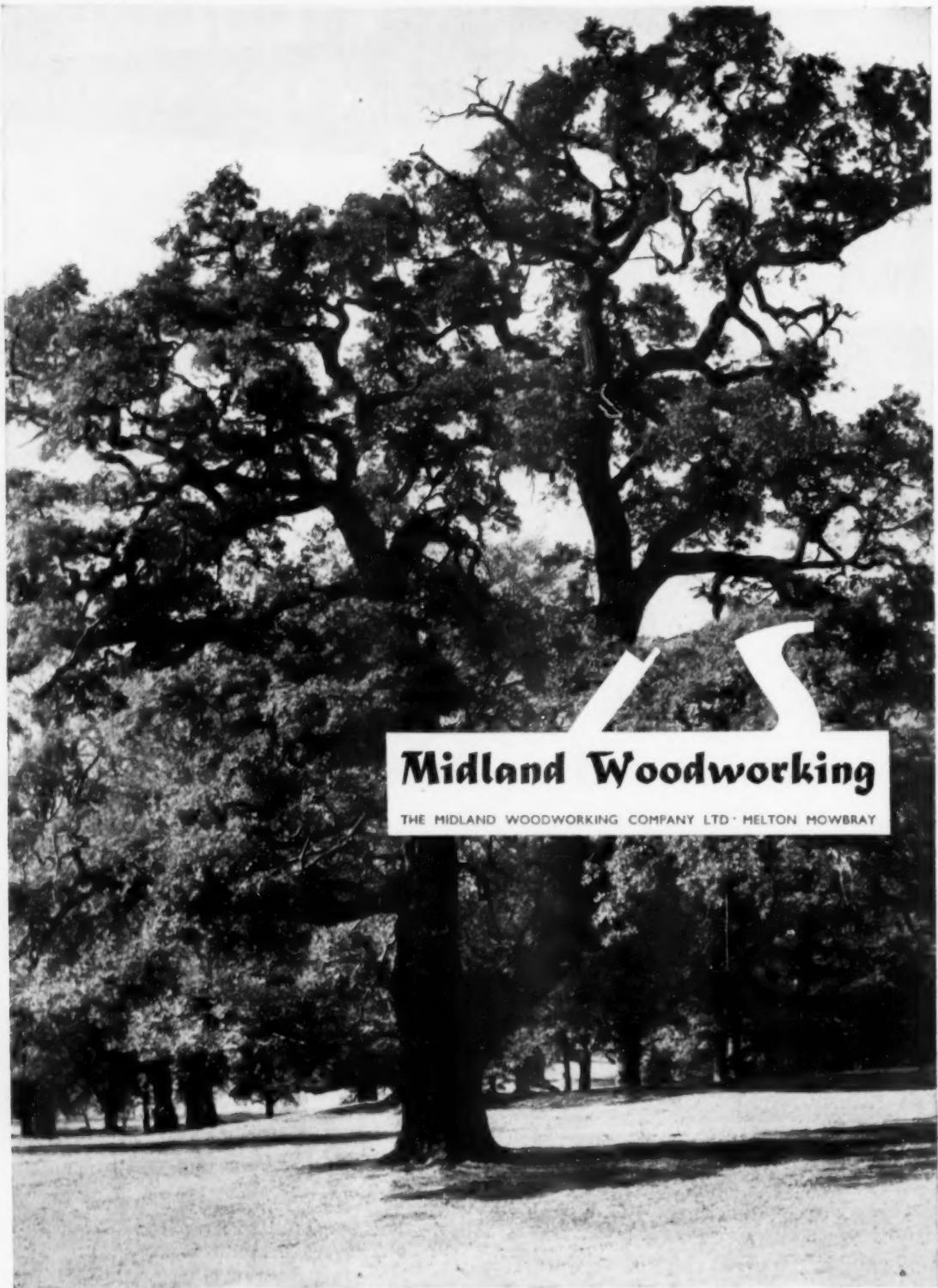
TOILET

CUBICLES

They'll need lavatories in that new contract you've got coming up. Why not get them ready made? It's cheaper than building in brick and tile. Roften prefabricated Toilet Cubicles are rustproof, insect-proof, fire-resistant. Double skinned doors so they never warp. You can have them in any specified colour, grouped in any number. A really first class job and no trouble to fit.



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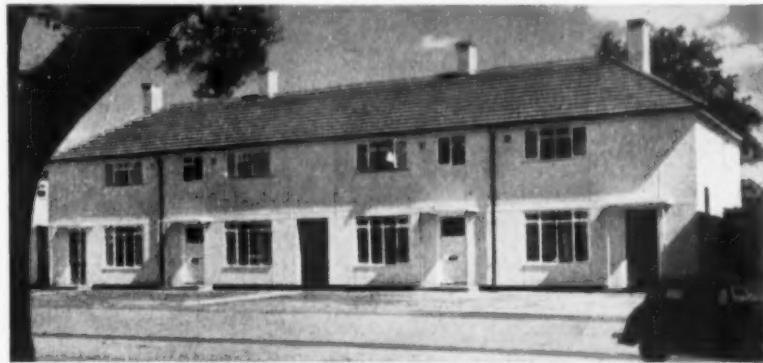
96 HOUSING AUTHORITIES CHOOSE WATES' NEW TRADITION'

Over 19,000 Wates Houses and Flats throughout the Country

Latest news of this high-speed approved alternative to brick housing includes contracts to build 268 flats in blocks of four and six storeys at Birmingham, 150 houses at Tamworth, 64 houses at Cheltenham, and 132 houses at Hemingfield for the Coal Industry Housing Association. These are but the most recent examples of the increasing trend to Wates 'NEW-TRADITION' houses and flats. It is significant that they are all repeat orders.

2 to 1

Speed of erection is the key to the popularity of the Wates 'NEW-TRADITION' system. Compared with brick housing, handing-over rates are generally doubled — due to the employment of mechanical handling methods, large-scale organisation, and up-to-date reinforced concrete production resources. As an example of the resultant savings in time and manpower, 200 Wates Houses were built at Worcester in eleven months. Wates Ltd., working in close liaison with a panel of Contractors who build under licence, provide a country-wide service. Tenders can normally be submitted within 48 hours.



Variety in Design

The accompanying illustrations are typical of the many developments where Wates Houses have been specified. Equally suitable for town or country settings, they have a normal and attractive exterior, which can be varied by the introduction of vertical tile hanging, a wide range of self-coloured Exposed Aggregates and other attractive Tyrolean finishes. Designs include terraced and semi-detached houses with two, three and four bedrooms, miners' houses, Old People's Bungalows, and flats of up to eleven storeys.

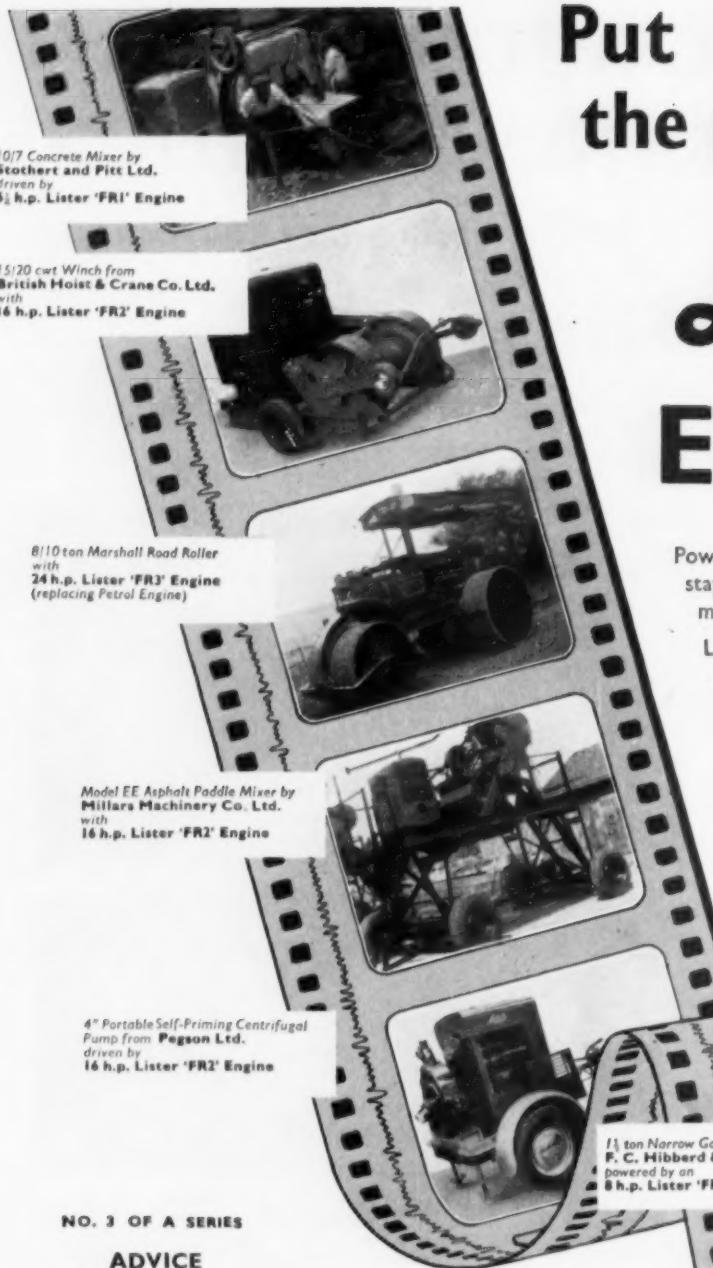
Wates Technical Advisory Service

The Technical Services of the Wates Organisation are at the free disposal of all Housing Authorities. Every assistance will be given in the preparation of site layouts, including roads and sewers. This facility relieves Authorities of a great deal of internal work, and the important economies in time and cost which will result from consultation with Wates Ltd. in the early stages of planning cannot be over-emphasised.

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including the booklet
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NO. 3 OF A SERIES

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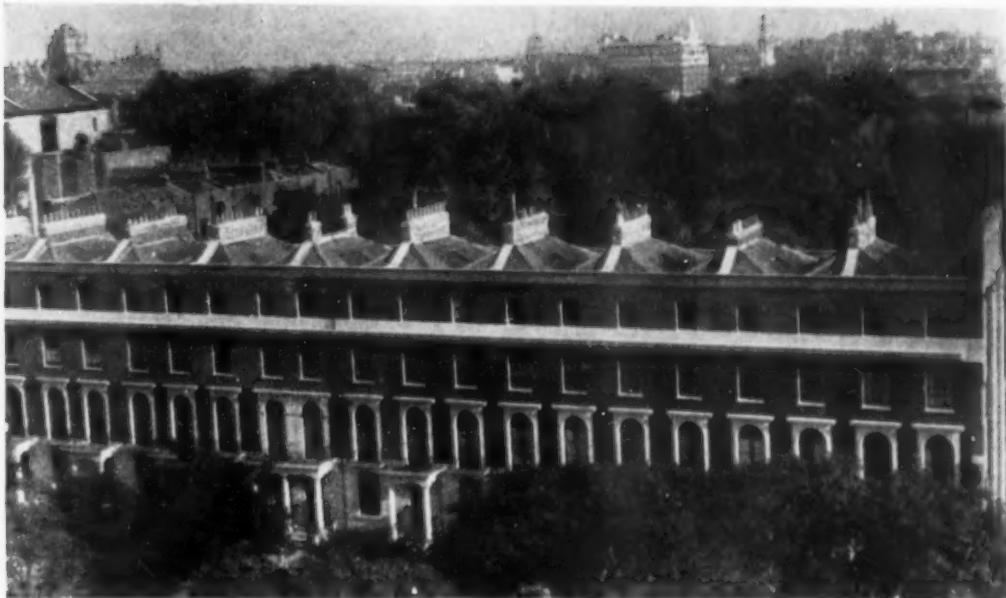
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Cementone again!



THE above illustration shows the terrace of houses in Harrington Square, London, after it had been re-decorated by Messrs. J. Raper & Son, for the London Midland Region of the British Transport Commission. The exterior surfaces were treated with Cementone No. 9 Waterproof Stoneface Composition. Besides imparting a natural stone finish to the work, this remarkable product protects the surface against atmospheric pollution and resists the penetration of rain and moisture.

CEMENTONE No. 9 is used for both interior and exterior decoration. You can use Cementone No. 9 even on new alkali-containing surfaces such as reinforced concrete, cement renderings, asbestos cement, plaster and brickwork, besides many other materials. A considerable saving in cost is effected by the fact that two coats only are required on either new or old work. No primer is necessary.

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Send for the Cementone Handbook and share the benefit of 175 years' experience of building problems.

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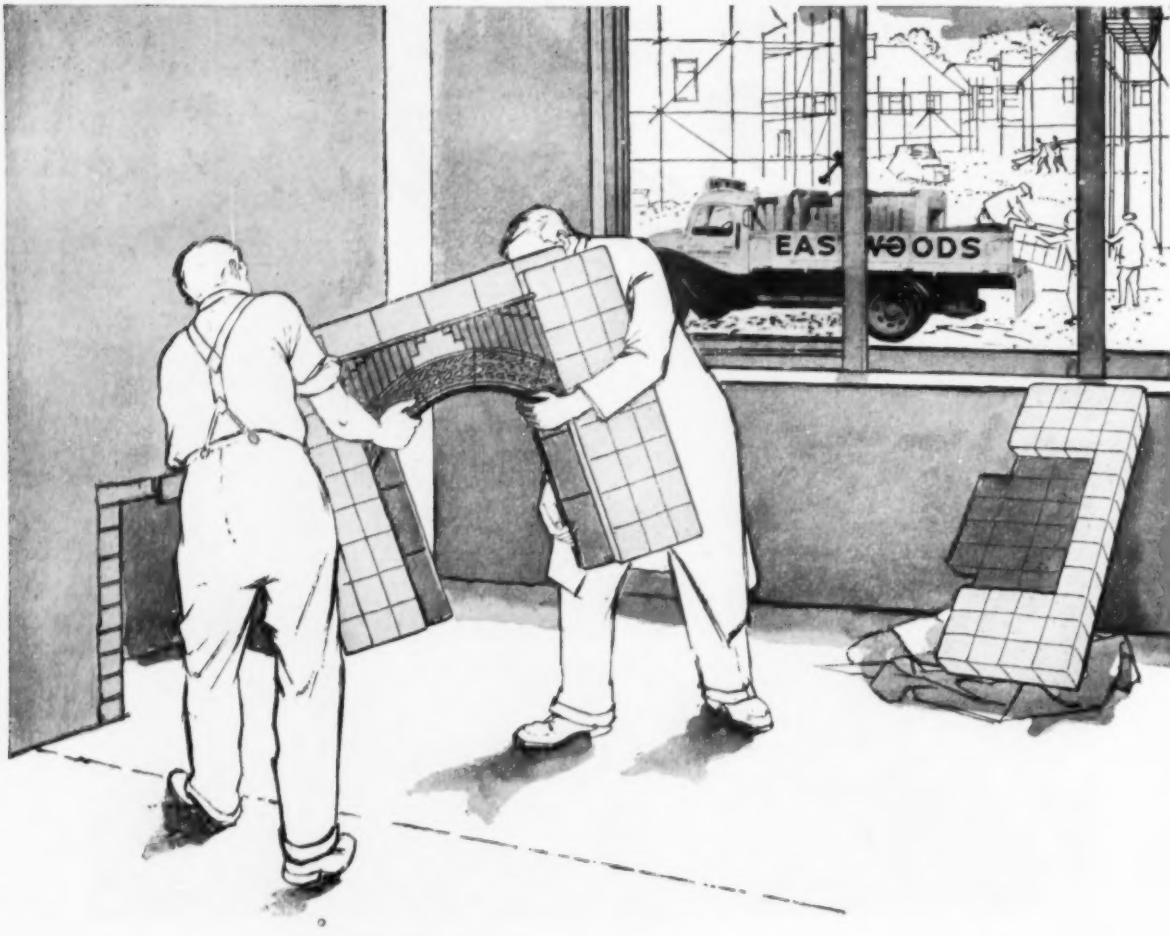
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- In addition to the manufacture of these standard designs Eastwoods also offer Architects manufacturing resources for the production of fireplaces to their own special designs.
- A broadsheet is available on request which illustrates and identifies all the fireplaces within the standard range. Your nearest Eastwoods Depot or Head Office will send it to you. They will also be very happy to discuss the production of special designs.

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Fine time to think of Winter!

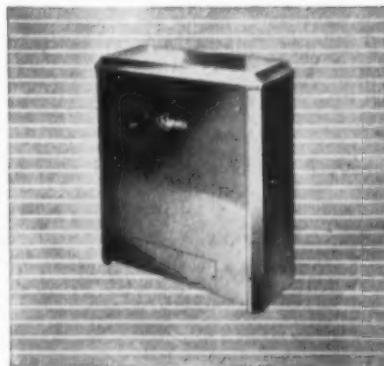
Basking in the sun . . . an odd time, you might think, to be reminded of winter cold with the problem of keeping people and buildings warm! But just consider . . .



WHAT A PITY...

our bodies cannot store heat in the summer when there's plenty of it—for use in the winter when there's not! But that, in effect, is the excellent principle behind the "Nightstor" heater which stores up heat during the night, and gives off an even, continuous flow of warmth throughout the day. Workers arrive to warm premises, sickness is reduced, efficiency maintained. *Why not send for details?*

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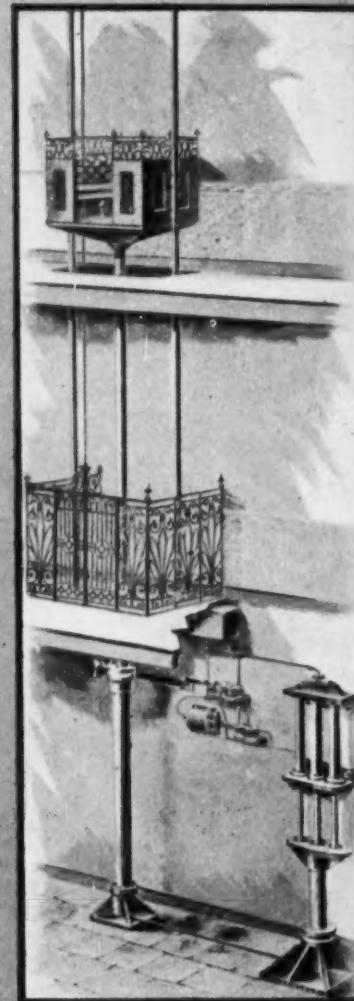


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These days each colour can do a specific and important job of work. Bright colours in a factory at all danger points, for instance; and colour tie-ups in kindergartens on your-cloakroom-your-classroom principle. Colour is busy helping, soothing, guiding and classifying in hospitals and offices, too.

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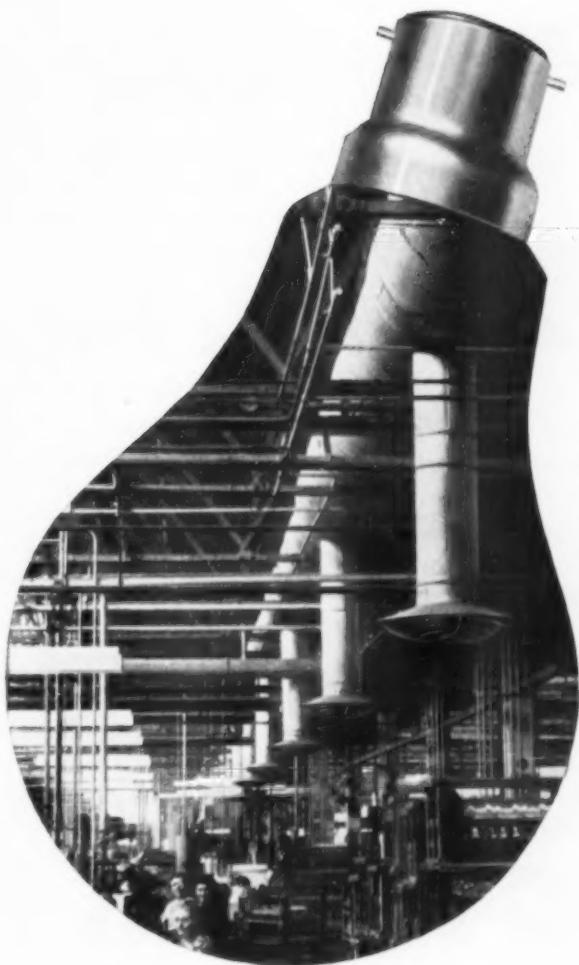
Nothing left to chance . . .

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In addition to normal air-conditioning, a vast Air Purification System makes doubly certain that the atmosphere throughout the Ediswan Lamp Factory is as clinically-clean and free of microscopic dust particles as human skill and ingenuity can contrive.

This immense plant consists of several Pumping Stations, each operated by 25 h.p. motors which deliver heat-treated, purified air via distributor ducts throughout the entire factory. Each Pumping Station circulates no less than 159,000 cubic feet (5½ tons) of air per minute ! The temperature of the circulated air is precisely stabilised by thermostatic control.

This is another example of the strict control and technical care insisted upon at every stage in the manufacture of Royal "Ediswan" Lamps. Nothing is left to chance—careful testing and checking of every lamp ensures that each conforms to the highest standard of requirement.



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"All shops on the Thames be whitewashed and plastered within and without. All houses which can be plastered let them be plastered within eight days . . . those that will not be plastered in that term be demolished."

FIRE

what is the menace?

A building may be inconvenient, ugly, noisy or unhealthy, without being more than a nuisance to its occupants — BUT IF IT IS A FIRE-TRAP,

IT IS A PUBLIC MENACE.

which is the best wall lining?

"Plaster, being made of sand and calcium sulphate is incombustible and highly fire-resisting as a material. When it is reinforced and thereby held in position by wood laths, or better still by metal mesh, its resistance is valuable... Fire has been known to rage fiercely for a time in the flue-like spaces inside a stud partition while the plastered faces remained intact." From 'Fires in Buildings — the behaviour of materials in fire' by Bird & Docking.

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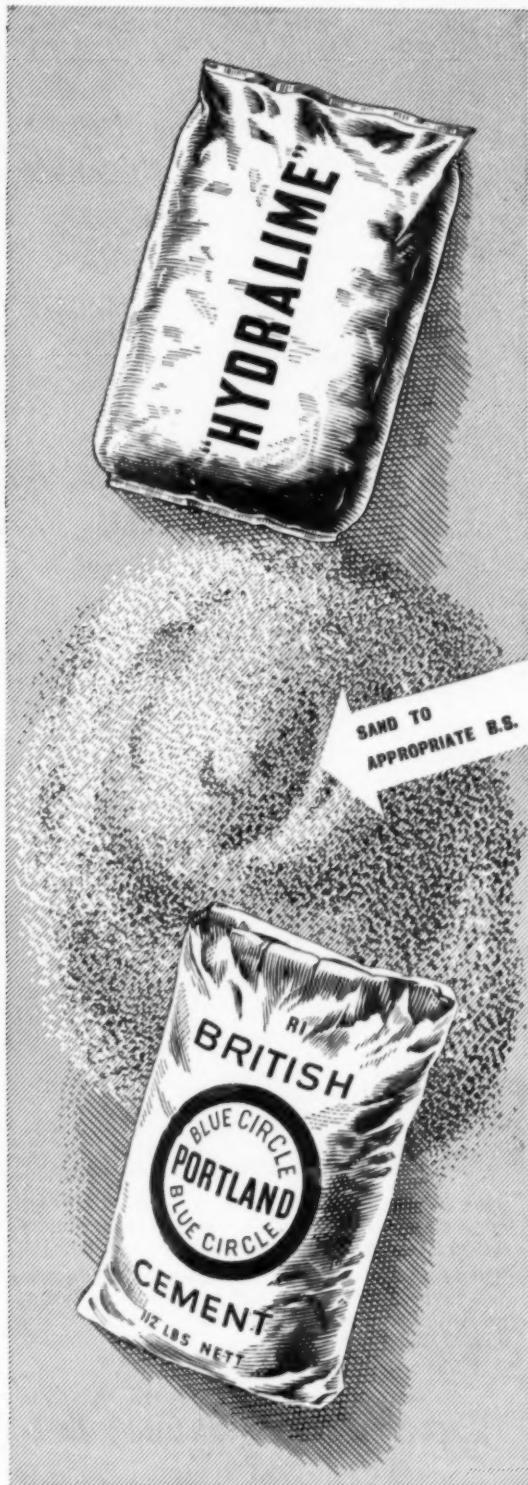


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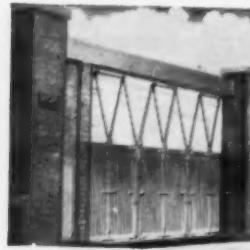
H.2

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This is achieved by securing the heads of the bolts inside the tank, so that the screwed portion projects outside.

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plied with the tank. This ring, together with the grummet fitted under the bolt heads inside the tank, enables a perfect seal to be made in much less time.

The cover itself is slightly convex to give additional strength, and the turned-over edge of the manhole presents a smooth rounded surface which cannot injure the hands or arms when installing the tank.

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Harvey



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C188

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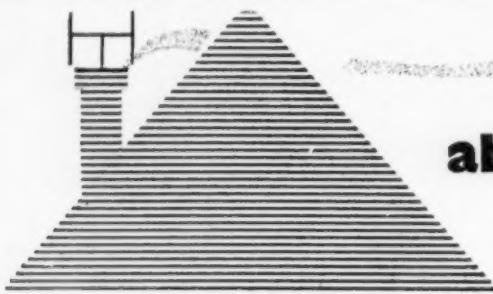
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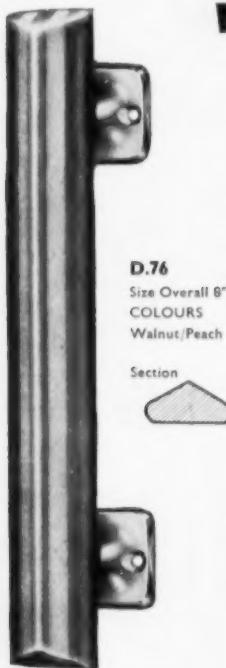


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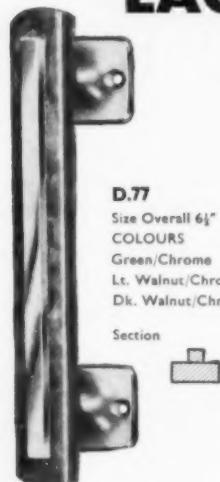
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Wolverhampton Crematorium, Bushbury Lane, Bushbury

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Well over four tons of copper were laid by Holloway craftsmen on the buildings of this newly completed crematorium. Most sections comprise concrete roofing with dove-tailed wooden battens for fixing purposes set in the final screed. The metal was laid on the standing seam principle and rectangular copper eaves gutters and round copper down pipes were fixed throughout. When weathered to its distinctive green shade it will further enhance this fine building and should need **no maintenance for a century**.

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ELLARD Sliding Door Gear has been specified for flats and housing schemes by: London County Council; Canterbury and Peterborough Corporations; Epsom, Mexborough, Rushden, Sawbridgeworth and Wellingborough U.D.C.s; Easington and Sedgefield R.D.C.s; and for British Railways Housing Estates, Southall; Coronation Bungalows, South Shields; Kytes Settlement Estate, Watford; Newton Aycliffe and Stevenage New Towns.

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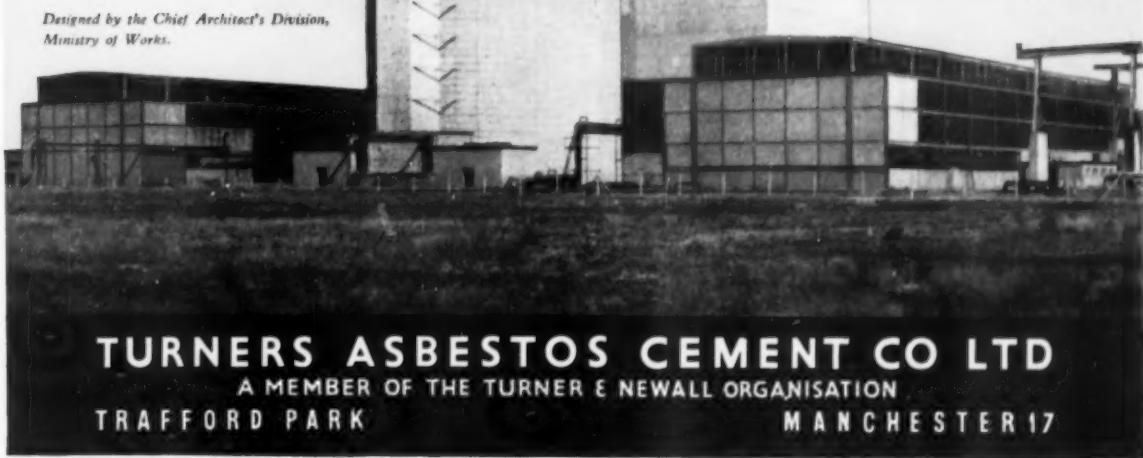
B.M.J.

ASBESTOS-CEMENT

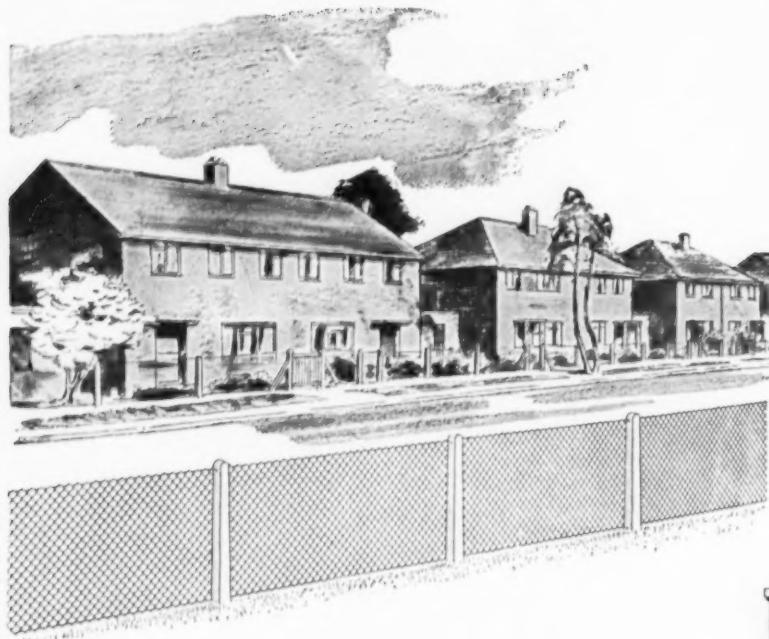
on Britain's Plutonium Factory



The illustration shows one of the two pile buildings at Britain's Plutonium Factory, Windscale Works, Sellafield, on both of which "EVERITE" Asbestos-Cement "BIGSIX" Corrugated Sheets have been used as vertical cladding to the 400 ft. high Hoist Tower and "TURNALL" Trafford Tiles as vertical cladding to the sides of the Pile Buildings.



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This is an artist's impression of a small section—the Chain Link Fencing, Concrete Posts and Fittings were all manufactured at our Watford Factory and erected by a team of our specialist erectors.

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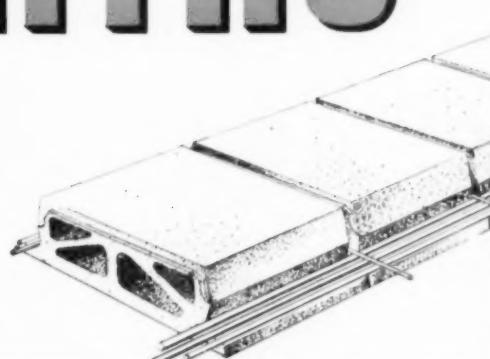
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5/6/54

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Two Way Reinforced Suspended Concrete Floors

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MORE ON SMOKE ABATEMENT

THE reports "Mortality and Morbidity during the London Fog of December, 1952" (H.M.S.O. 2s 6d), and "The Menace of Air Pollution" (PEP, 2s) just published, remind us, if we need reminding, that, to quote Donne, "Some have eat the fire out of their chymneys," and consequently were their own executioners.

The Political and Economic Planning broadsheet is an able, factual summary of the subject and reinforces the memorandum of the National Smoke Abatement Society, which appeared in May and which laid the society's views before Sir Hugh Beaver's Committee.

Both pamphlets consider that what is needed is an educational campaign to put over (a) that air pollution is harmful, expensive and something to be ashamed of, and (b) that it can be steadily reduced if we set out to do so. A concerted drive against smoke is being launched at Leeds, a black spot, on September 14, where representatives of public bodies in the West Riding will meet to discuss methods of reducing smoke pollution. In their report, the West Riding Smoke Abatement Committee estimates that up to three tons of soot falls every day on each square mile in the coal-producing areas in their district, and that the sulphuric acid deposited on York Minster has eaten holes nine inches deep in the fabric.

This is a good start and should pave the way to a campaign led by the Government, whose National Railways are one of the chief smoke-producers.

In addition to the education of public opinion, there are the legal and economic aspects.

It is agreed that the existing law is seriously out of date and what there is is not enforced (under the Railway Acts of 1845 and 1846 locomotives are required to be constructed so as "to consume their own smoke"!).

In the industrial field, American practice is

ahead of us. There, particulars of proposed plant have to be submitted to the city or county authority for approval and in some cases a further certificate is necessary before operating it.

In England and Wales where smoke inspection is carried out for local authorities by either specialist inspectors or sanitary inspectors holding a smoke abatement certificate, there are only twenty-five of the former and of a total of 4,600 sanitary inspectors only 423 possess the smoke inspectors certificate, whereas New York alone has 29 full-time inspectors and Chicago 40.

The economic problem is to produce enough smokeless fuel to burn in the approved appliances. The PEP report considers that twenty-six million tons of coal will have to be replaced by solid smokeless fuel (thirty million if coal used by miners is included). "The total annual production of solid smokeless fuels is at present thirty-seven million tons, much of which cannot be taken from industry, but much could be diverted to domestic use."

Both reports sensibly include among their suggestions that both board-room and trade union support is essential. The fewer laws and inspectors the better.

Smokeless zones in Manchester and Coventry are proving successful. That in Manchester is being increased to twice its present size from May of next year. This idea is bound to prove popular as the ordinary housewife will find her washing bill reduced, and the amount spent on cleaning and decorating will also fall. A pre-war enquiry carried out by a firm of multiple shops showed that for every £4 spent on decorating in clean areas, £7 was spent in smoky areas.

The case against smoke is made out, and no more evidence is required. It is ways and means of reducing it that come next, and the sooner the Beaver committee's findings are made public the sooner the job can be started.

EVENTS AND COMMENTS

THE INVISIBLE BARRIER

I see that yet another person has stepped smartly through a plate glass window thinking that it was an open door. This has happened so often now that it has ceased to be as uproariously funny—to the rest of the world—as it was and is now a lesson for designers of the frameless paneless window school. The fact is that some people simply cannot see a sheet of plate glass in certain lighting conditions, furthermore, they do not appreciate that the modern designers fun and games with the enclosure of space sometimes includes what is to them invisible enclosure. On the other hand some of us alive to all the tricks of the trade instinctively pause and put out feelers when we observe what most people would take to be a join in the carpet, for have we not learned from the experience of the few that this join is in fact a frame and that there is almost certainly a sheet of purest $\frac{1}{4}$ in plate between us and the buffet.

THE TENTH TRIENNIAL MILAN

As usual the British Government has no exhibit at this important design exhibition. However, this year some British manufacturers and designers have got together and there will be a British exhibit. Two furniture firms, Hille and Race, are sharing a stand. Robin Day, who designs the Hille furniture, Ernest Race and Misha Black are the principal designers. A number of other firms are supplying furnishings for the stand. This is a most enterprising effort and all concerned are to be congratulated. I hope very much that the exhibit will be a great success. It should be for it is in very capable hands. And there is the warning. It so happens that some of our top designers and firms are involved, we are lucky that they will be representing Britain. Supposing that some of those firms who make up the bulk of the annual furniture exhibition at Earls Court had had the idea. What then?

The fact is that the British Government should be there, represented by the C.o.I.D., with a much wider selection of our best manufacturers than these much-to-be-admired few firms can show.

SLUR ON CANADA

Someone has sent me a leading article from the Brantford (Canada) *Expositor* which has the above heading. It quotes an advertisement from the London *Times* in which the Canadian Crown Corporation seeks Town Planners with Architect's or Engineer's degrees and T.P.I. qualifications, age 35 to 45, at a starting salary of \$3,600 to \$3,800.

The *Expositor* considers this is disgraceful as the pay is comparable to that of a 40-hour week plumber and less by \$19 a week than that of a bricklayer.

The article points out that if any British architect is so misled as to take such a job he will find himself on no better living standard than a British plumber and worse off than a member of other British artisans.

The *Expositor* calls it disgusting and a gross deception and closes with this forthright sentence:

"It is particularly shameful that the Canadian Government, through its Department of Labor, should be involved in such an episode. It is a slur on Canada and it must be removed promptly."

Well written sir! Did you say your second name was Abner? Perhaps after all they did not put the right number of naughts in the salary or perhaps it was the monthly rate. It is certainly pretty stinking as it stands.

DISTRICT SURVEYORS AND THEIR FEES

I have never become used to District Surveyors being salaried officials of the L.C.C. My excuse is that the law was altered in 1939 when I was otherwise occupied.

It appears now that financially putting the D.S. on the payroll was a bad thing from the Council's point of view. The intention was that the salaries should be recovered from the fees paid. With large increases in salary and the restrictions on building this has not worked out. In 1953-54 D.S.'s cost the L.C.C. £212,000 and their fees were only £126,526. The Council now proposes to increase charges by about 40 per cent so that the income from fees will be approximately equal to the cost of administering the London Building Acts. This seems only fair but all the same it is another little something on the cost of building in London.

COME . . . AND BE FASCINATED BY . . .

These words introduce an advertisement from a Toronto newspaper sent to me by a Liverpool charmer. Guess what it is that is going to fascinate you! Architectural models and drawings by students of the School of Architecture of the University of Toronto. The advertisement, put in by Eaton's, one of Toronto's big stores, promises you a BIG THRILL from the work of these students. The firm sponsored the exhibition and gave it space. This is a new approach and might well be tried out here. "Bring the children," it says, "they'll love it."

The Royal College of Art is having an exhibition at Liberty's from August 30 to September 18, but I have seen no zippy ads. about it, only a very neat card. What an opportunity missed!

EXPLANATION

If this page seems a little inconsequential, a little too un-serious, please forgive me for the Mediterranean calls and by the time you see this in print I hope to be getting sunburned. . . . I say again, sunburned.

ABNER

[With this last view of Abner and his family in their Rolls getting smaller and smaller until they disappear in the Channel haze, readers will have to bear with A. N. OTHER for the remainder of this column and for the weeks while he is away. A weekly news-letter has been mentioned—we shall see.]

U.S. SKYSCRAPERS

In "Perspectives" Number 8 there is a most readable and scholarly article by Mr. William Alex on "The Skyscraper: U.S.", with a number of illustrations ranging from our own Crystal Palace, the *fons et origo*, up to the Alcoa Building. Some of the intermediate examples, for instance the Monadnock Block, Chicago, 1891, designed by Burnham and Root, might commend themselves to



On August 21, the Conference of the Commonwealth Parliamentary Association was opened by Sir Evelyn Baring in the new Parliament Building, Nairobi, designed by Thornley H. Dyer, F.R.I.B.A., A.M.T.P.I., in association with A. D. Connell, A.R.I.B.A. This building was described in A. & B.N. of February 25, 1954.

developers in the City of London to-day. William Le Baron Jenney was the first man to use the method known as skeleton construction for high buildings, and according to a book, "Fifty Years a Builder," by Henry Ericsson, Jenney returned home early one day because of labour trouble on his current building and found his wife reading. She, taken by surprise, got up hastily, and in doing so put her book, which was quite heavy, on top of a nearby bird-cage. Jenney's quick eye took in the fact that this fragile structure supported the weight of the book quite easily, and the rest followed. True or not, it is a delightful story and fits in well with all the other similar ones like Watt and the Kettle, Paxton and the Victoria Regina Lily, and Sir Owen Williams' acrobats standing on their hands back to back with their toes just touching, which gave him the idea for the construction of Wembley Swimming Pool. If Robert Bruce had studied the web instead of watching the spider, the Eiffel Tower might have been put up in Edinburgh.

To return to Mr. Alex and his article. He works in the department of the Museum of Modern Art, which deals with circulating exhibitions, and his article is based on one of last year's exhibitions on the same theme.

The Americans are naturally envious of the wide

publicity the Soviets have got for their high blocks—"Moscow's eight new Woolworth Buildings," as *Forum* called them, and went on to quote from the *Great Soviet Encyclopædia* which says, "American skyscrapers are the result of the ugly system of capitalistic building methods. . . . They are huge, shapeless buildings looking like towers and are foreign to the surrounding smaller structures. They are chaotically crowded in the business centre of the city, making the city's outline ugly and turning the streets into canyons deprived of light and air. . . . In contrast to the skyscrapers, situated, as they are, on the highest places and at the most important points of the capital, Moscow's high buildings may be seen from the great distances." The greater the distance the better would be the verdict of the Americans, but what do they think about the planning criticism?

MULTI-STORY OR SUB-SURFACE CAR PARKS?

I see that a highways sub-committee of Glasgow Corporation is considering multi-storey buildings for car-parking in St. Enoch Square. I have admired photographs of several such buildings in the U.S. and in Germany, but have never read any expert discussion on the

pros and cons of underground versus over-ground car parks.

I cannot believe they are evenly balanced economically. Personally, I am prejudiced against burrowing underground where it can possibly be avoided; it savours of a return to our pre-historic past.

I am even sceptical of the value of underground car parks in relieving traffic congestion, as I see no reason why road space saved by driving cars below should not soon be filled by other cars coming in to take their place. If you have multi-storey garages, at least other motorists can see that the cars are there all stacked up in layers, so that there is no excuse for adding to the traffic jam

on the grounds that they didn't know. My guess is that more and more people will give up using their cars to come into town centres, the least tough drivers first, until the hard core or inveterate motorists stick it out and make the best of things.

While in the vein, I would like to add my protest to the increasing use of minor roads by heavy road hauliers in the way of short cuts (East Heath Road, Hampstead is an example). Not only do they disturb the peace at all hours of night and early morning, but both vibration and diesel exhaust fumes are bad for buildings and their owners. Back to the electric carriage, I say!

NEWS OF THE WEEK

Limited Competition

Nine firms of architects have been invited by the English Electric Company to take part in a limited competition for planning a new building on the site of the old Gaiety Theatre, London. This building will, with Marconi House, form the enlarged offices of the English Electric Group.

The Gaiety which dominates the end of the Strand from the centre island block of buildings at Aldwych, occupies one of the most important sites in London. The Gaiety closed as a theatre before the war and has stood empty since.

Repeated attempts were made to revive the building as a theatre, but this was found to be impossible and the English Electric Company bought the site.

The company state that they are mindful of the great importance of the site and regard it as their duty to erect a fine modern building. It will be planned with full regard to its ultimate setting in a great square, which is part of the London County Council's re-building programme.

The architects, who have been invited to take part in the competition, are: Mr. David Du R. Aberdeen; Adams, Holden and Pearson; Sir John Burnet, Tate and Partners; Farmer and Dark; Farquharson and McMorran; Mr. Michael Rosenauer; Mr. Louis D. Soissons; Mr. Basil Spence; and Yorke, Rosenberg and Mardall.

The assessors will be Sir Percy Thomas, Past President R.I.B.A., and Mr. John Murray Easton, F.R.I.B.A. The competition will be under the rules of the R.I.B.A.

Royal Fine Art Commission

The Queen has approved the appointment of Mr. Allan Stephen Quartermaine and Mr. Geoffrey Alan Jellicoe as members of the Royal Fine Art Commission in succession to Sir William Halcrow and Mr. John Newenham Summerson, who have retired.

Mr. Allan Quartermaine, C.B.E., M.C., is a Past President of the Institution of Civil Engineers, and is Chairman of the Council for Codes of

Practice. Mr. G. A. Jellicoe, F.R.I.B.A., is a Past President of the Institute of Landscape Architects.

R.I.B.A. Award for Dist. T.P.

The R.I.B.A. award for Distinction in Town Planning is the only award in town and country planning bestowed by the R.I.B.A. It is by conferment only and is limited to Fellows, Associates and Licentiates of the R.I.B.A. Outstanding work in the design and layout not of individual buildings, but of groups of buildings will be recognized. The award will be made for actual planning work and while not primarily intended for housing layouts, such layouts of groups of buildings would not be excluded.

Recommendations are submitted to the Council by a Standing Committee set up for the purpose. Personal applications by candidates will not be entertained; the name of a candidate must be submitted by three or more sponsors, themselves members of the R.I.B.A., who will be required to submit details of the candidate's professional qualifications and experience and evidence of the candidate's actual planning work. Nominations may be made twice annually on March 1 and November 1, and must be addressed to the Secretary, R.I.B.A., 66, Portland Place, London, W.1.

Members upon whom the award has been conferred will be entitled to use the designation "R.I.B.A. Award for Distinction in Town Planning" and it is advised that this should be used in full, or the initials "Dist. T.P." after the initials "F.R.I.B.A.," "A.R.I.B.A.," or "L.R.I.B.A.," according to the class of membership to which they belong.

ANNOUNCEMENT

The districts of St. Pancras North and South have been amalgamated with effect from August 12, 1954. Mr. F. P. Scott, formerly District Surveyor for Stepney, is the District Surveyor for the new combined District, St. Pancras.

New offices for the combined St. Pancras district will open on September 20, 1954, at 14-16, Duke's Road, St. Pancras, W.C.1 (Tel. Euston 8008/0). Until then combined district will be administered from the existing two offices at 14, Percy Street, W.1 (Tel. Museum 1155/6) and 240, Kentish Town Road, N.W.5 (Tel. Gui-

liver 1626), respectively, and Mr. Scott will be based at the Percy Street office.

CORRESPONDENCE

Window Furniture

To the Editor of A. & B. N.

Sir,—In your issue of August 12 your contributor "Abner," criticizes the window furniture at the L.C.C. Comprehensive School at Kidbrooke; not only is it in his opinion "of very poor design" but he feels that "the best available window furniture leaves much to be desired from appearance and hand-comfort points of view."

It would be a dull world if all architectural critics were in agreement, and metal window manufacturers will no doubt take comfort from the opinion expressed in the Design Review section of the *Architectural Review* exactly two years ago. The development of metal window fittings is there compared favourably with that of door furniture: "The influence of two firms of metal window manufacturers, both with a sane and progressive approach to design, has resulted in an engineering solution—to the integration of form and performance—which could hardly have been improved upon;" and again: "The sanity and unselfconsciousness of these designs suggest that they have reached a point where a real advance is difficult."

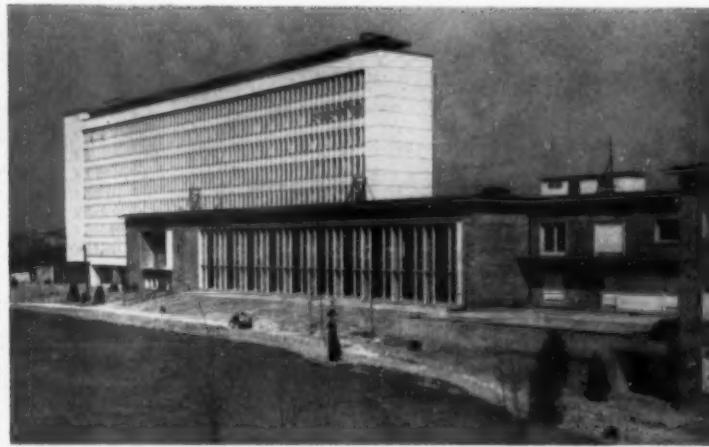
One of the patterns selected by the *Architectural Review* to illustrate this article was Hope's Handle No. 1703, the same which was used on Kidbrooke School. It was originally designed about 30 years ago, and although it may have no striking originality, we are proud of it; it is generally considered to be particularly good from what "Abner" calls the "hand comfort point of view."

I am, etc.,
Henry Hope & Sons, Ltd.,
WILFRED HOPE,
Director.

APPOINTMENTS

Mr. Hugh C. Connell, B.Sc. (Arch.) (Glas.), A.R.I.B.A., of Leeds, has been appointed Chief Assistant Architect to Camberwell Metropolitan Borough Council.

George William Rhodes, A.R.I.B.A., A.R.I.C.S., A.M.Inst.Mun.E., has been appointed Architect-Surveyor of the West Ashford Rural District Council.



New French Embassy, Sarre

Above: Admin. block, North elevation.

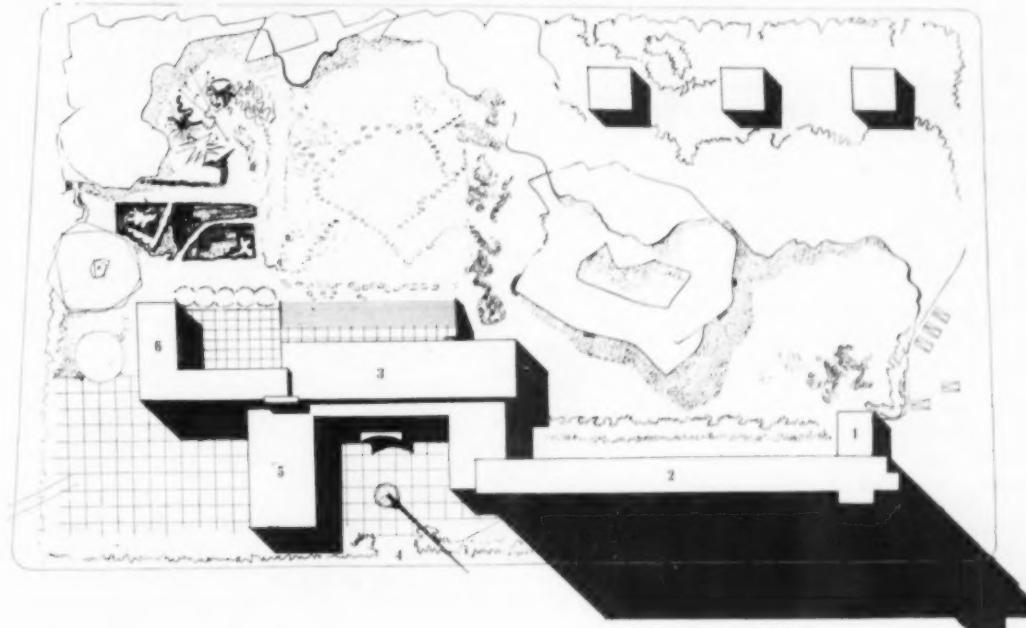
Top left: Admin. block, South elevation and reception block.

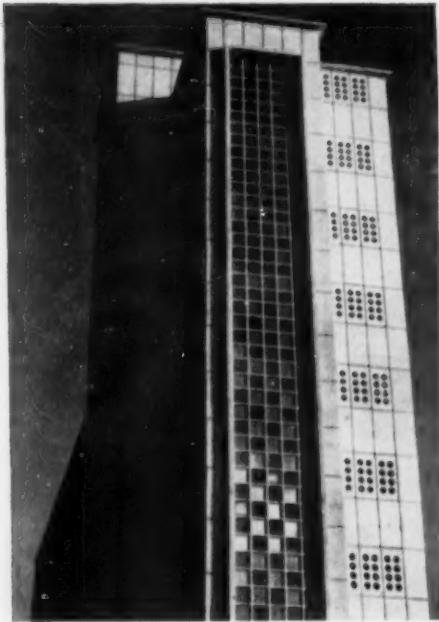
Bottom right: Reception and private residence.

[Continued overleaf]

KEY

- 1 Entrance to offices.
- 2 Admin. block.
- 3 Reception.
- 4 Cour d'Honneur.
- 5 Service block.
- 6 Private dwelling.





New French Embassy, Saar

ARCHITECT : G. PINGUSSON

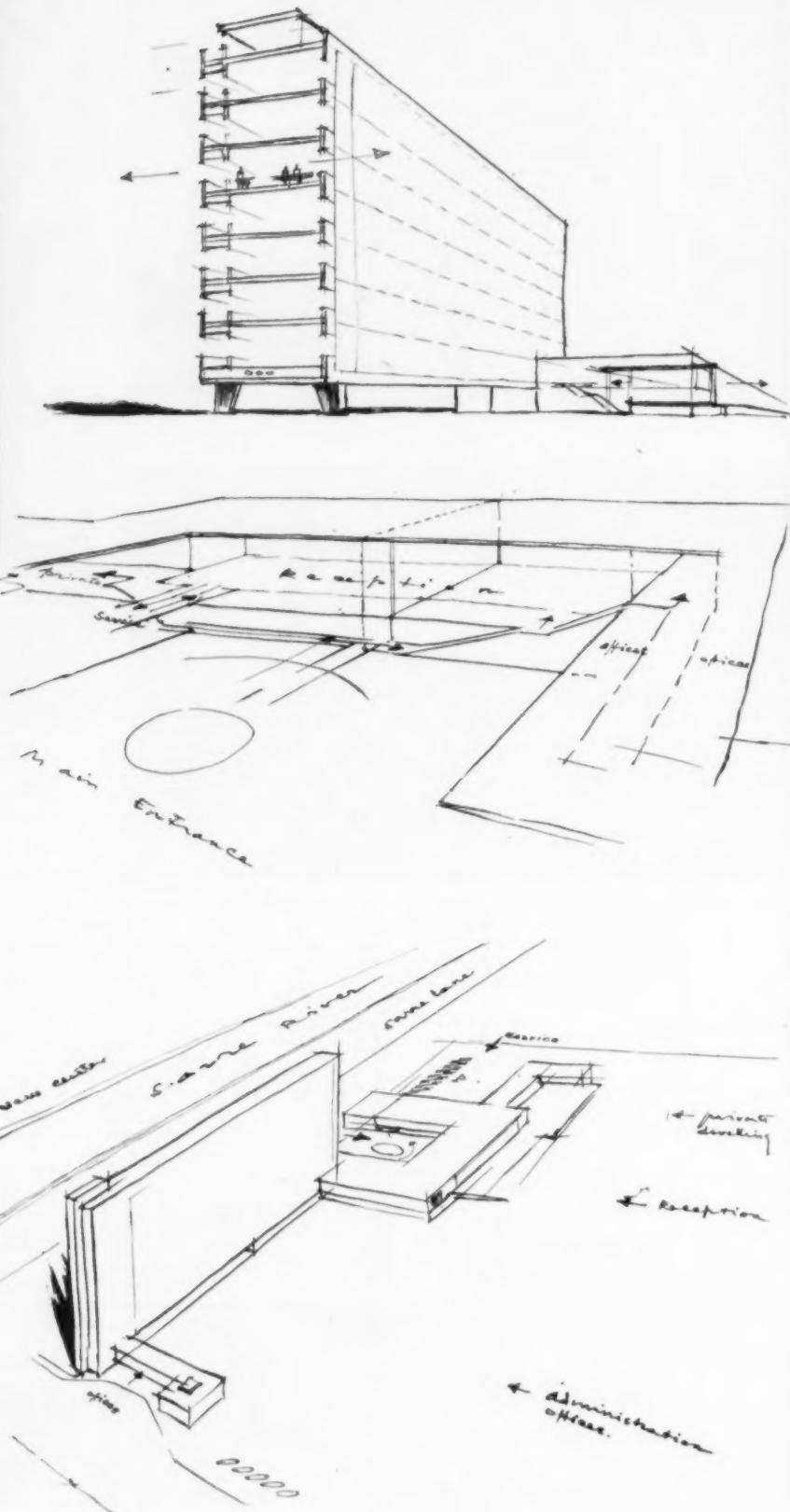
The Saar or Saar is a steel and coal producing district economically bound to France, with its principal town only a few miles from the French frontier. Saarbruck (Saarbrücken) was almost destroyed by bombing and is being completely replanned. The new French Embassy is the first important new building. It has three main divisions expressing its separate and related functions.

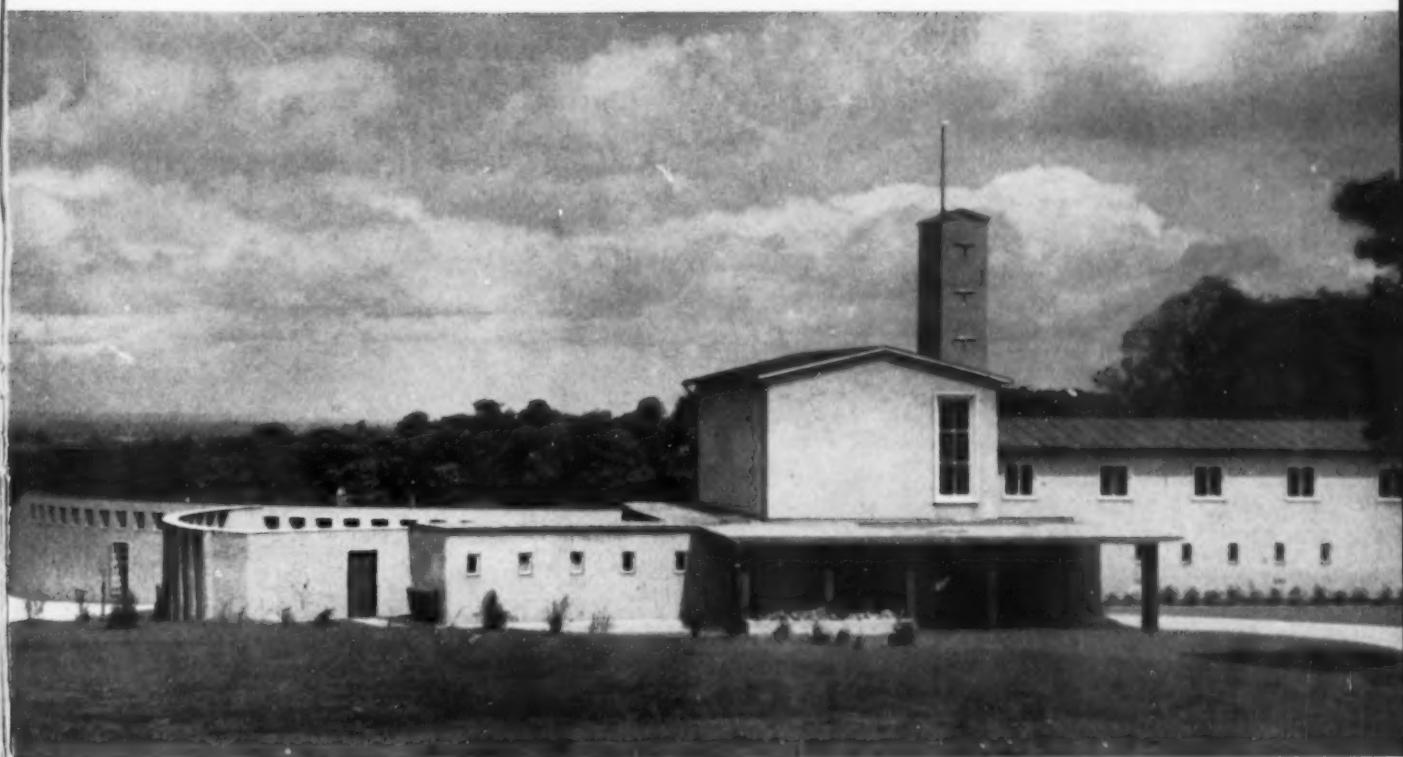
1. Administrative Services. An office block eight storeys high, facing South planned on a modular grid of 1.20m. The offices have movable partitions which give a range in width of 2-5 modules. This block includes library and filing and is air-conditioned.

2. Reception Wing. Which has access both from the Cour d'Honneur and the Admin. Block, is used for official functions and also has movable partitions to give extra floor space for concerts and receptions.

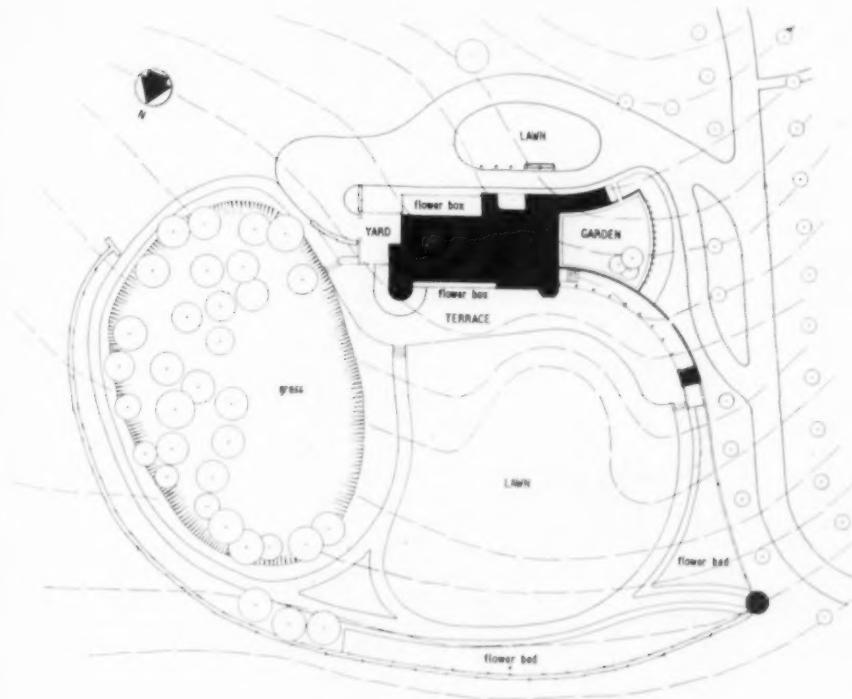
3. Private Wing. Where the Ambassador and his family and staff have their quarters, together with accommodation for guests. Five garages are provided.

Construction is r.c. frame with deformed reinforcement (Völklingen), faced externally with 1 module width concrete slabs. Heating is from radiant ceiling panels.





WOLVERHAMPTON CREMATORIUM



ARCHITECTS:
LAVENDER, TWENTYMAN
& PERCY, F.A.R.I.B.A.

Engineer responsible for
Crematorium Equipment:
M. MERVYN LAW, M.B.E.,
Borough Engineer

Quantity Surveyors:
HENRY VALE & SON

General Contractors:
MCKEAND SMITH & CO., LTD.

Sculpture:
DONALD POTTER

SCALE: 1 INCH = 96 FEET

Layout

The site slopes to the north and commands magnificent views over open country. The layout was planned to exploit the view to the north and also to include an existing group of old trees surrounding a small pool. The

curve of the cloister follows the existing ground contours.

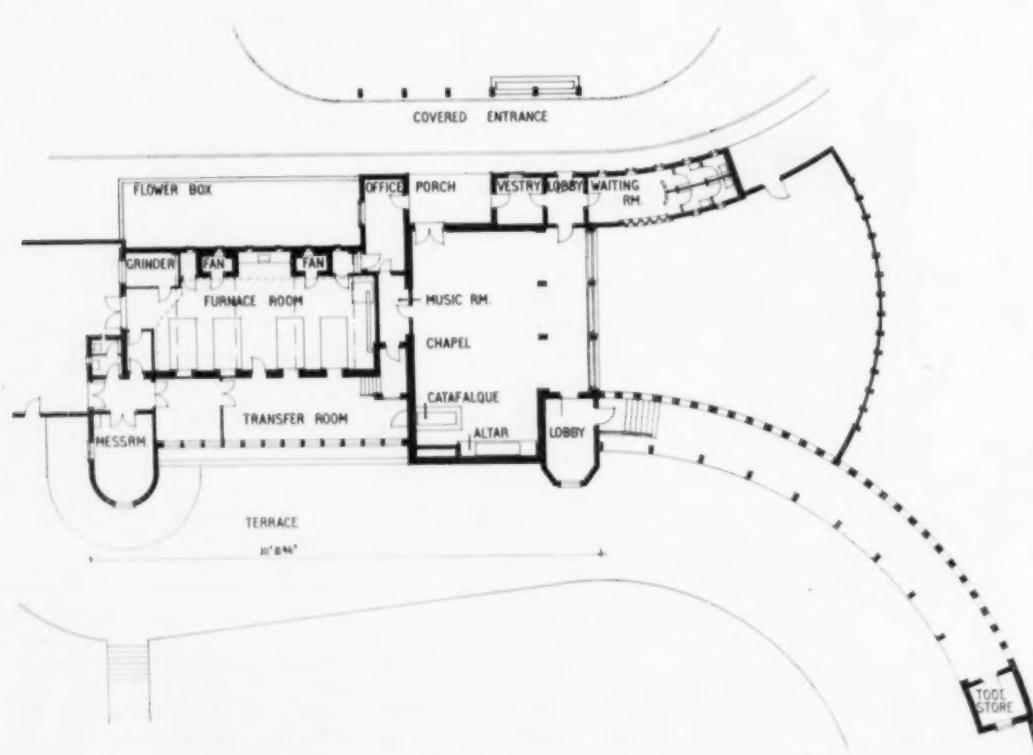
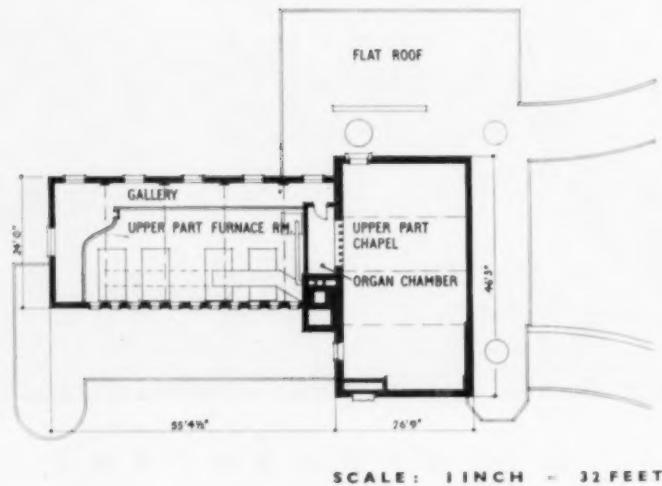
A small enclosed garden, visible only from the Chapel and Waiting Room, is provided so that people in the Chapel can look out on to grass and trees, while no one can see into the Chapel from outside.

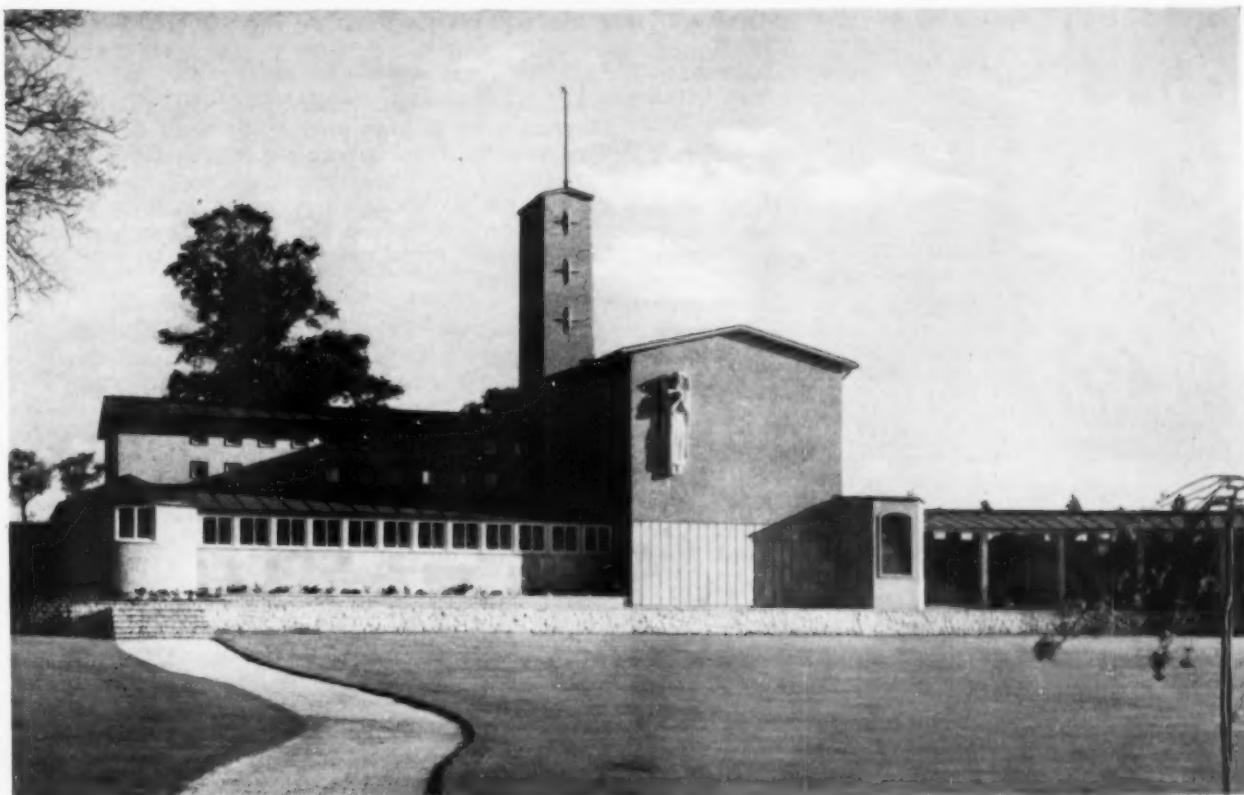
Wolverhampton

Crematorium



Carved Angel by Donald Potter





Elevation to Garden

Planning

At busy periods services can be held every 20 minutes and smooth circulation is therefore important. The three main circulations are:

(1) The cortège arrives under the covered entrance and the cars, after dropping their passengers, go round the turning circle and park in the road behind the Cloister.

(2) The mourners, after the service in the Chapel, go into the Cloister, from where they can see the wreaths laid out on the terrace. After walking round the garden if desired they go through the door in the Cloister leading to the road where the cars are waiting.

(3) The coffin is carried to the catafalque, inside which is a lift holding a trolley. At the moment of committal the lift descends 3ft 6in to the Transfer Room level; after the mourners have left the Chapel, the trolley is wheeled out of the lift and attached to one of the furnace openings into which the coffin is drawn.

The Furnace Room contains two gas-fired furnaces with provision for two more to be installed when required.

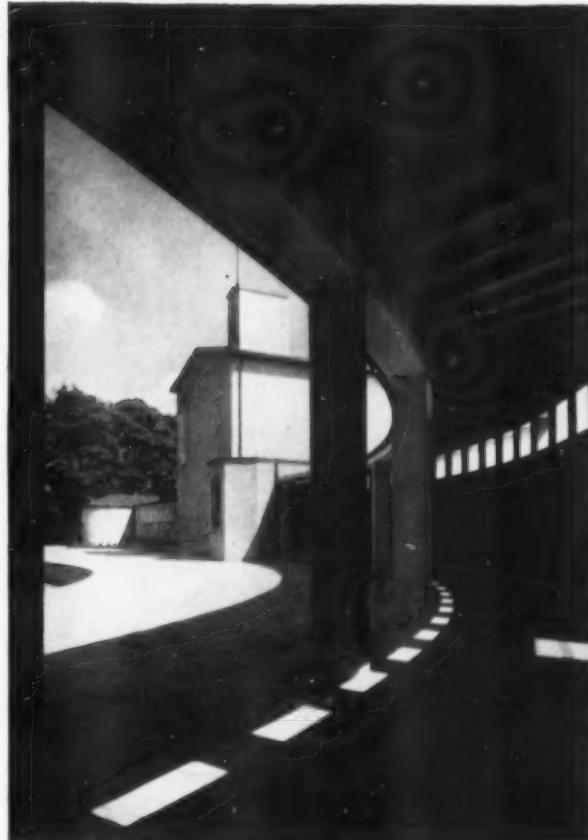
The Book of Remembrance is placed under a window overlooking the distant view and is accessible from both the Chapel and the Cloister.

A chamber is provided above the Music Room for the future installation of a pipe organ.

General Design

It was thought desirable to avoid in any way intimidating the mourners, many of whom will, of course, have

The Cloisters



Wolverhampton Crematorium

had no previous experience of crematoria. The general design, therefore, is of a restrained character, using traditional materials, and the function of the chimney has been played down. Inside the Chapel the focal point is the altar and cross rather than the catafalque.

Construction

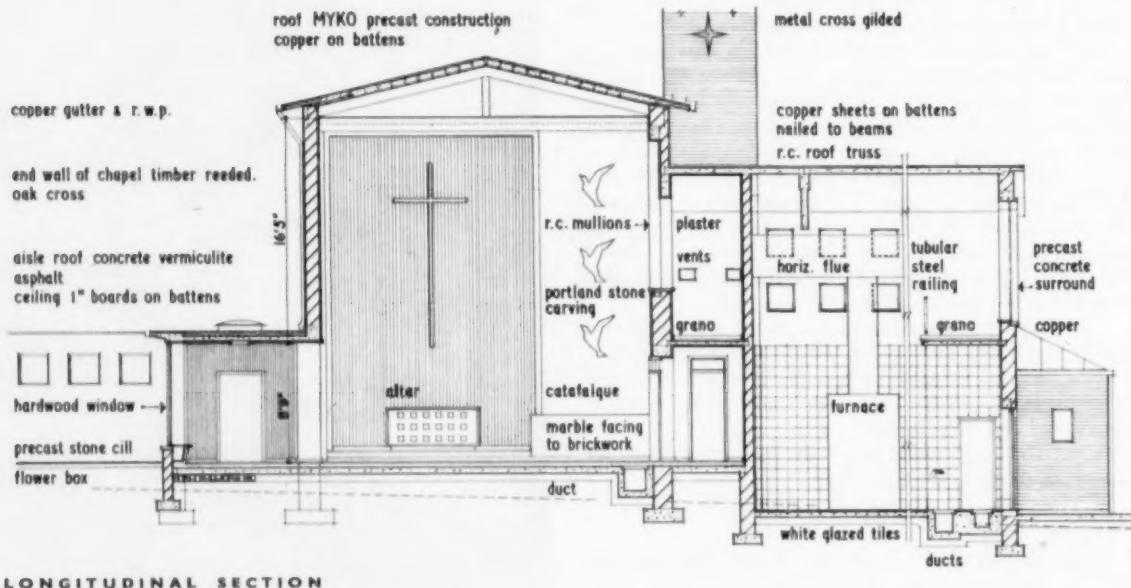
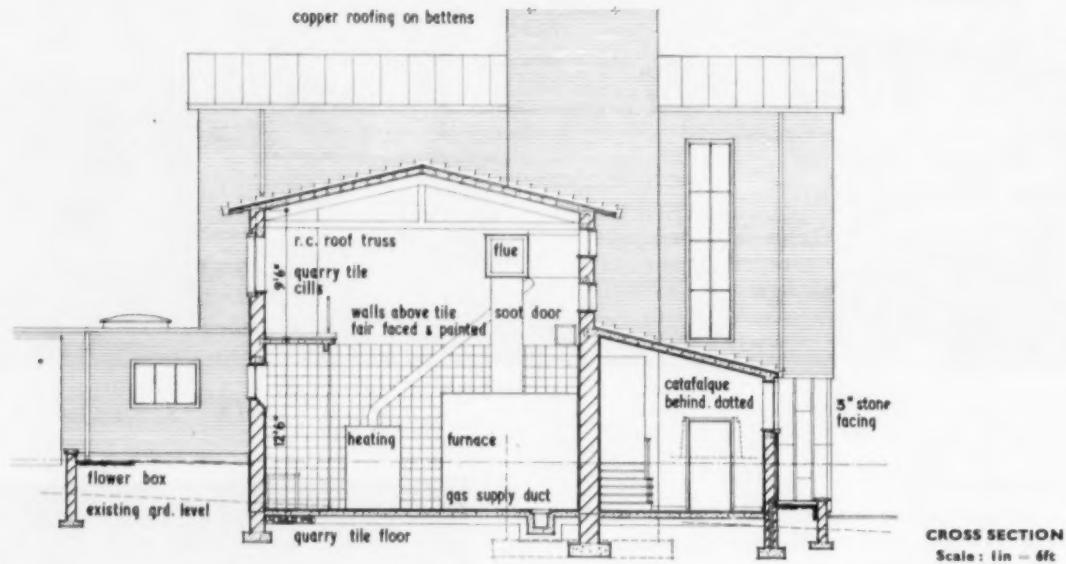
All walls are of load-bearing brick. Pitched roofs are of copper on precast foamed slag concrete units on precast concrete trusses. Flat roofs are of *in situ* concrete covered with vermiculite insulating screed and asphalte. The cloister roof is of copper on insulating board supported by oak rafters; the cloister columns are of cast stone supporting the curved concrete lintol.

External Finishes

Walls are of hand-made yellow-brown facing bricks with Clipsham stone slabs on parts of the north elevation. Window surrounds are of cast stone or green slate. The lining to the porch and the columns of the covered entrance are in dark green serpentine marble. The cloister is paved in Hornton stone and the terrace in cleft York stone. All gutters and downpipes are in copper.

Internal Finishes

The Chapel has a floor of gurjun blocks, walls of rough-textured plaster and a ceiling of plaster and acoustic tiles. The panelling behind the altar is of fluted mahogany



boarding. The aisle ceiling is of mahogany and grey sycamore.

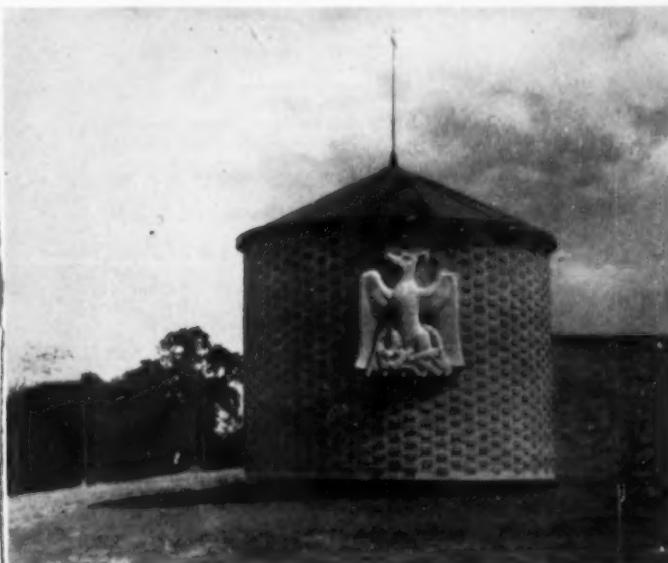
The Furnace Room has a floor of buff quarry tiles and the walls are faced with white glazed tiles up to gallery level.

Sculpture

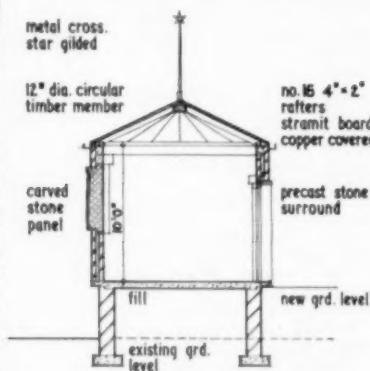
The three doves inside the Chapel, the angel on the north wall and the phoenix on the tool shed were all carved in Portland stone by Donald Potter.

Services

Heating is by floor panel warming in the Chapel and radiators elsewhere, all from a gas-fired boiler.



TOOL HOUSE
Scale: 1in = 6ft



View from Chapel into enclosed garden

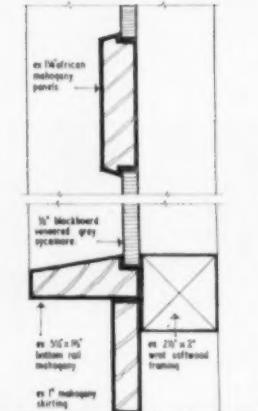
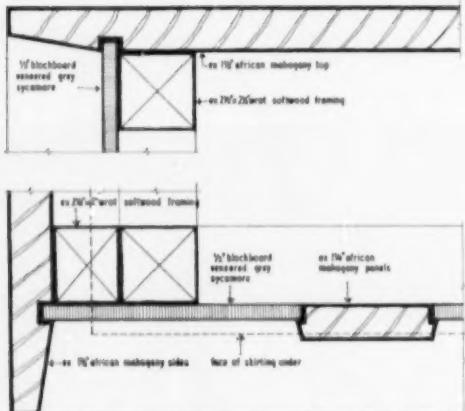


Entrance Porch
Furnace Room

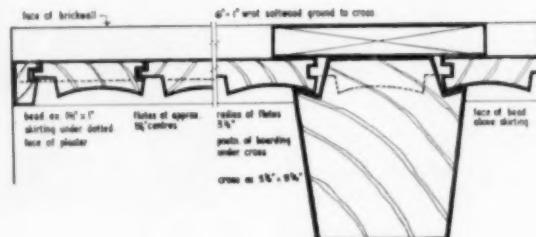




The Chapel

DETAILS OF ALTAR, AND PANELLING
AND CROSS BEHIND ALTAR

Scale: 1' 0".



WOLVERHAMPTON CREMATORIUM

Architects: **Lavender, Twentyman & Percy, F.A.R.I.B.A.**

General Contractors:
McKean Smith & Co. Ltd.

Accotile Flooring:
Rowen & Boden Ltd.
Acoustic Board between beams in Chapel:

Tentest Fibre Board Co. Ltd.

Altar Fittings:
William Loxley.

Art Metalwork:
James Gibbons Ltd.

Asphalt Roofs:
Limmer & Trinidad Lake Asphalt Co. Ltd.
Asphalte Co. Ltd.

Bricks:
Himley Brick Co. Ltd.
Electrical Installation:

G. F. Thorne
Expanded Metal beams in Chapel:
The Expanded Metal Co. Ltd.

Flooring:
J. A. Hewetson & Co. Ltd.
(Woodblock);
Charles Hunter Ltd. (Lintile).

Flush Doors:
The Adamite Co. Ltd.

Gearing:
John Thompson Beacon Windows Ltd.

Heating Installation:
G. N. Haden & Sons Ltd.

Ironmongery:
James Gibbons Ltd.

Lawns:
D. B. Evans Ltd.

Lighting Fittings:
E. Heffer & Co. Ltd.;
The Merchant Adventurers of London Ltd.;
Troughton & Young (Lighting) Ltd.

Lightning Conductor:
W. J. Furse & Co. Ltd.

Paving—Marble, Slate and Stone:
W. H. Fraley & Sons Ltd.

Paving Slabs:

Noelite Ltd.

Pews:
Ray Westwood (Lye) Ltd.

Precast Roof Beams:
George Greenwood & Sons.

Reconstructed Stone:
The Gloucester Stone Co. Ltd.

Roofing—Copper:
Holloway Metal Roofs Ltd.

Sanitary Fittings:
A. D. Foulkes Ltd.

Steel Reinforcement:
The Twisteel Reinforcement Co. Ltd.

Terrace, Steps and Stone Walls:
Midland Gardens Ltd.

Wall Facings—Clipsham Stone:
Rutland Masonry Works Ltd.

Windows—Metal:
John Thompson Beacon Windows Ltd.

DOWNER

SECONDARY

GRAMMAR

SCHOOL.

Harrow

C. G. STILLMAN, F.R.I.B.A.
county architect,

Middlesex County Council

E. L. GUNSTON, A.R.I.B.A.
area architect

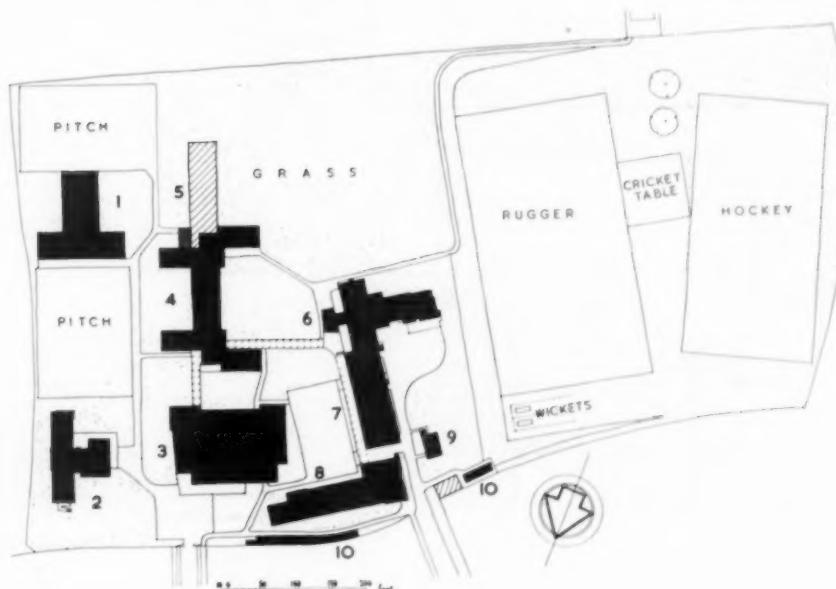
P. F. PIPER
assistant architect



Arts and Crafts block seen from the Assembly Hall block

THE Downer Secondary Grammar School, the first post-war grammar school to be built in Middlesex, is a four-form entry school for 650 mixed pupils. Because, during the planning stage, there was a possibility of building two more schools on the same site, the present building was placed at the western end and the service road sited to serve all three schools. Allowance was made for the kitchen to be extended and used as a central unit.

Continued on page 245]



BLOCK PLAN

KEY

1. GYMNASIUM AND CHANGING ROOMS.
2. SCIENCE BLOCK.
3. ASSEMBLY HALL, MUSIC AND ADMINISTRATION.
4. CLASSROOM BLOCK.
5. EXTENSION (IN COURSE OF ERECTION).
6. DINING-ROOMS AND KITCHEN.
7. WORKSHOPS.
8. ARTS AND CRAFTS.
9. SCHOOLKEEPERS HOUSE.
10. BICYCLE SHEDS.

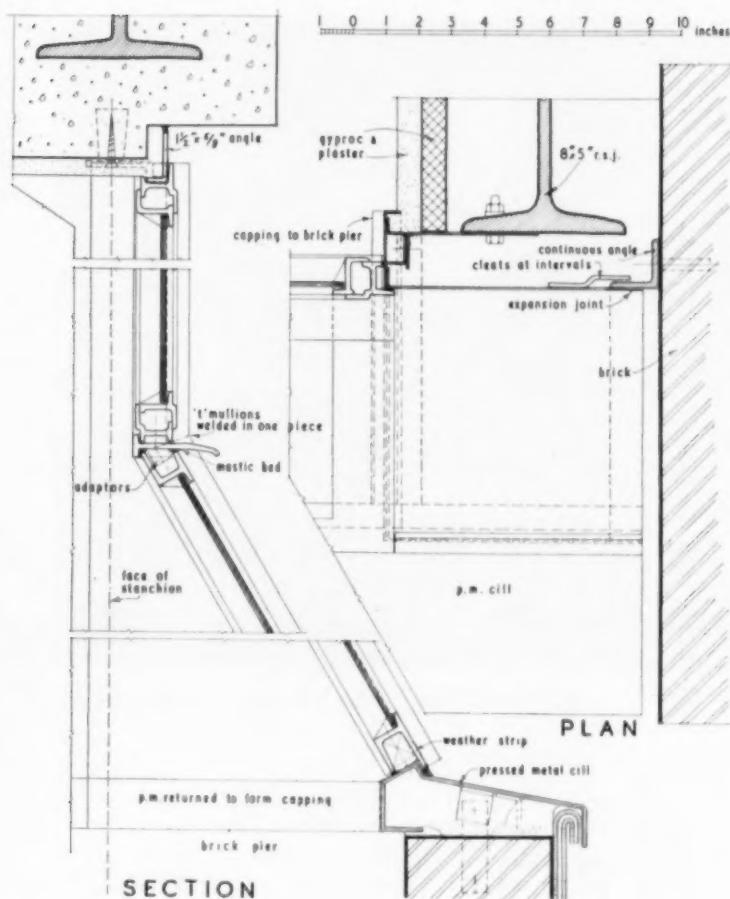
Downer Secondary Grammar School, Harrow



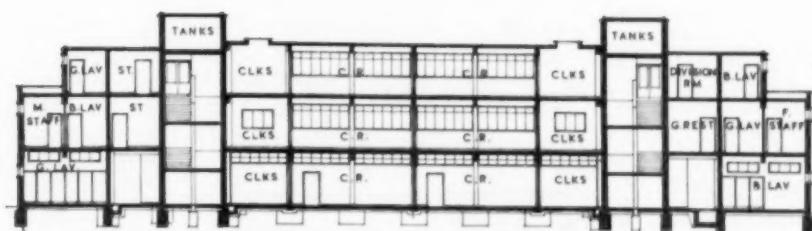
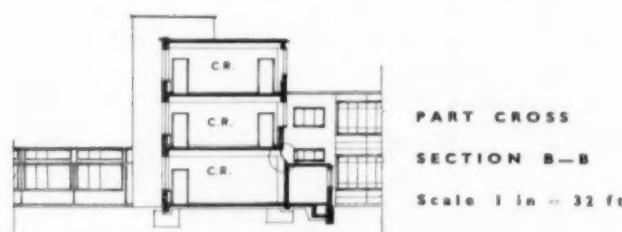
View from the West

CLASSROOM BLOCK

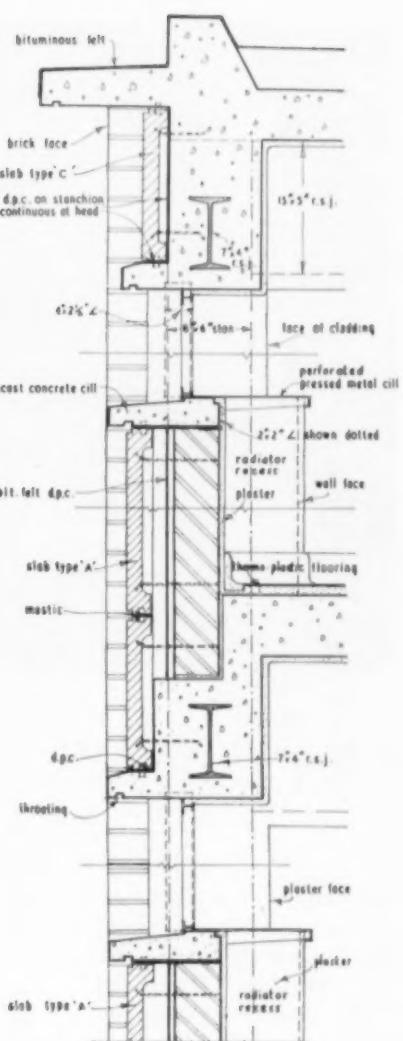




† F.S. DETAIL OF PART CIRCLED BELOW



LONGITUDINAL
SECTION A-A



1/2 F.S. Detail, typical vertical section through the centre part of the class room block showing the fixing of exposed-aggregate precast concrete cladding to the 4in brick backing and the steel frame.

Downer Secondary Grammar School, Harrow

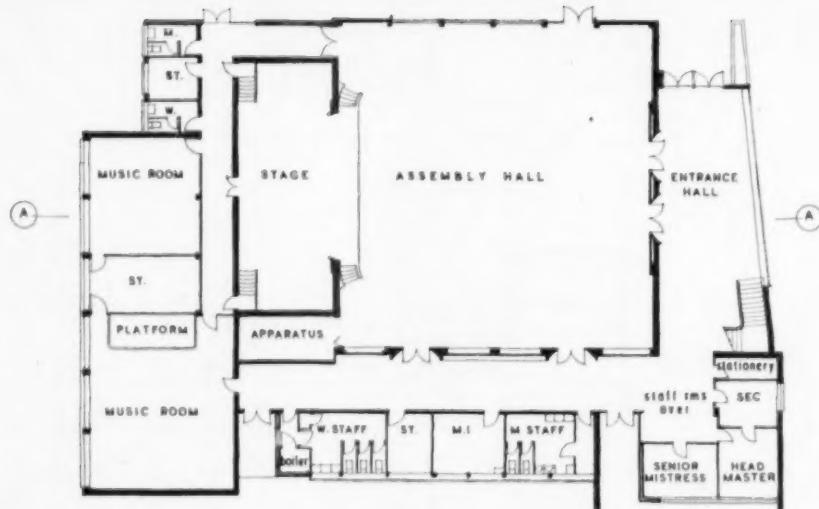


View from the main entrance

ASSEMBLY HALL BLOCK

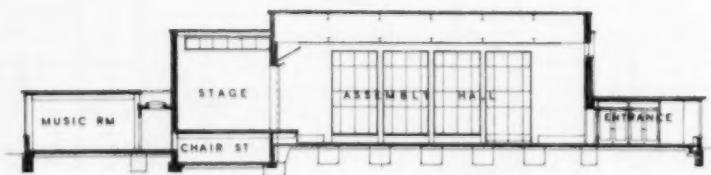
The assembly hall block also contains the administration offices and the classrooms of the music department. The hall and stage can be used as a separate unit when the rest of the school is closed.

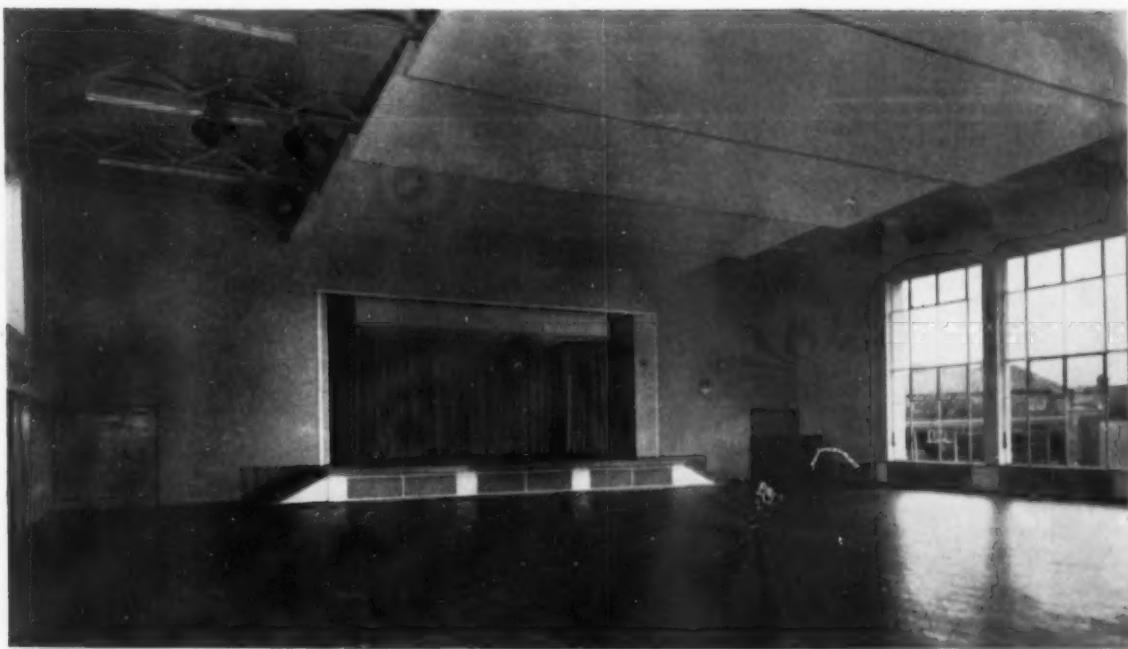
LAYOUT PLAN



Scale: 1 in = 32 ft

LONGITUDINAL SECTION A-A





Assembly hall and stage

[Continued from page 241]

Site

The site, 11.25 acres in area, has a fall of 40ft from east to west, levelling out at the eastern end, with a good view to the west towards Harrow-on-the-Hill. The land to the west is now being developed as playing fields.

Plan

The "campus" type plan was developed and the school consists of five separate blocks:— (1) Classrooms; (2) Science Laboratories; (3) Assembly Hall, Music and Administration; (4) Gymnasium; (5) Arts and Crafts, linked to Workshops, Dining-room and Kitchen.

There are two covered ways connecting together all blocks except the gymnasium and science blocks. The classrooms and arts and crafts rooms are on three floors; the science and administration on two floors. The division of the accommodation into comparatively small units lent itself to staircase access to first and second floors, thereby eliminating corridors except on the ground floor, and allowing teaching rooms to be lit from two sides.

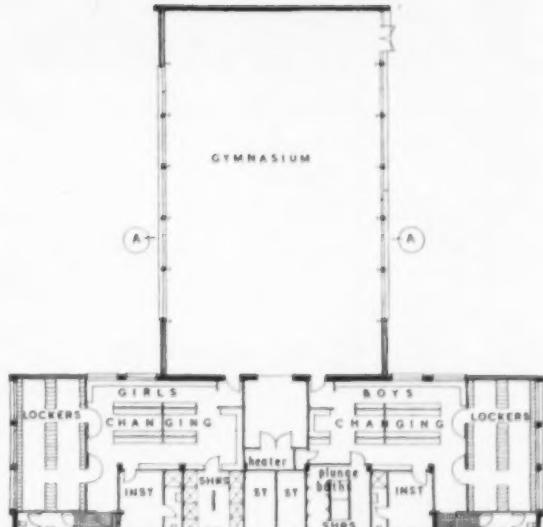
The smaller units are independently allied to existing ground levels, with excavation and filling reduced to a minimum. The change of levels occurs in the covered ways and, with the exception of the arts and crafts block, there is no change of level within the buildings.

All classrooms have their own cloakrooms, with sanitary accommodation for both staff and pupils, on all floors.

Construction

The method of construction was influenced by shortages

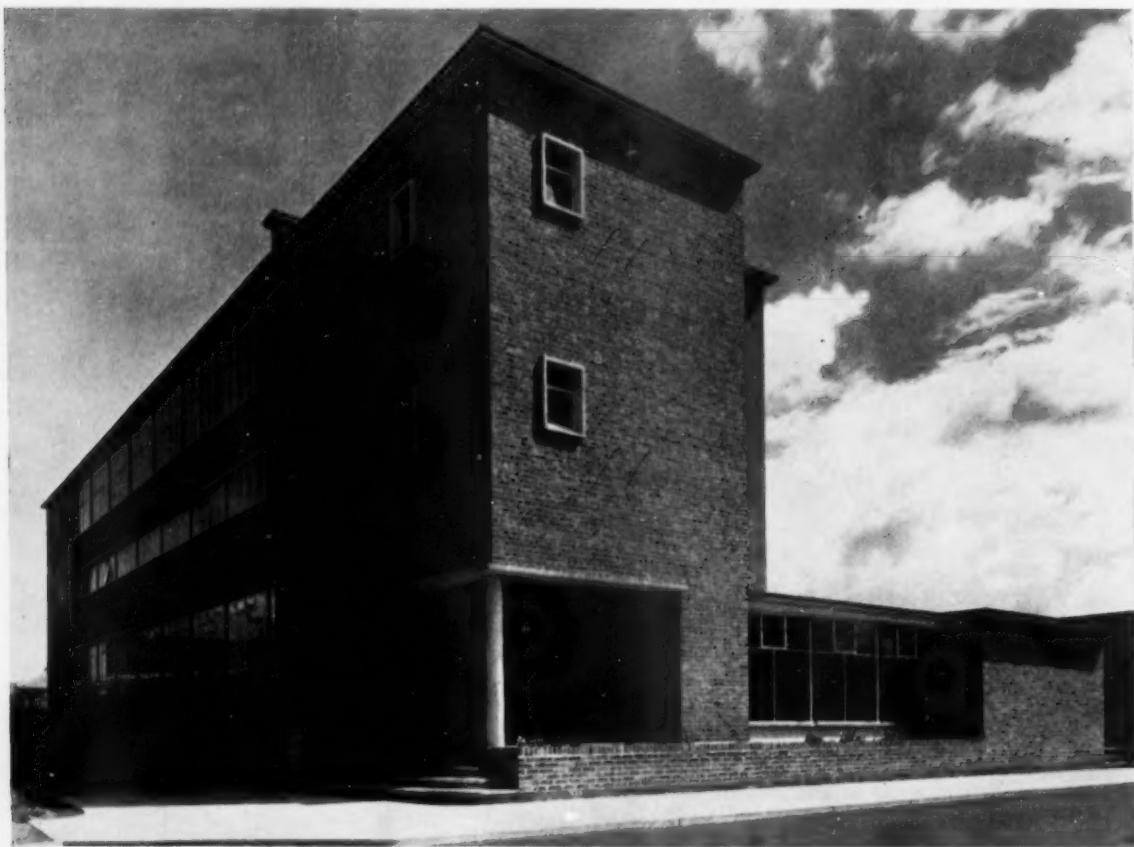
[Continued on page 247]



PLAN AND CROSS SECTION A-A OF THE GYMNASIUM BLOCK. Scale: 1 in = 32 ft. THE GYMNASIUM ITSELF HAS AN ALUMINIUM DECK ROOF SUPPORTED ON STEEL PORTAL FRAMES.

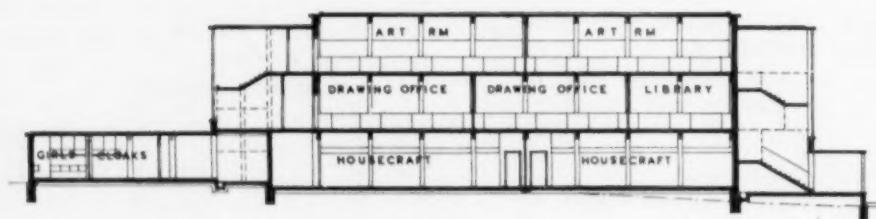
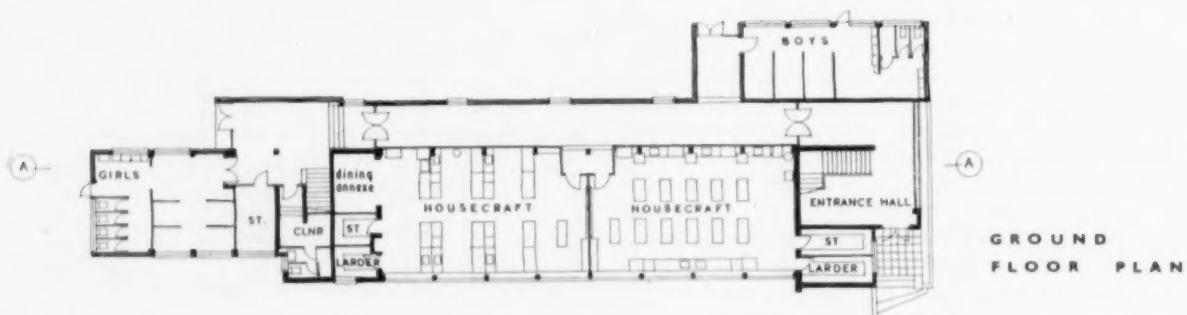


Downer Secondary Grammar School, Harrow



View from the West

ARTS AND CRAFTS BLOCK

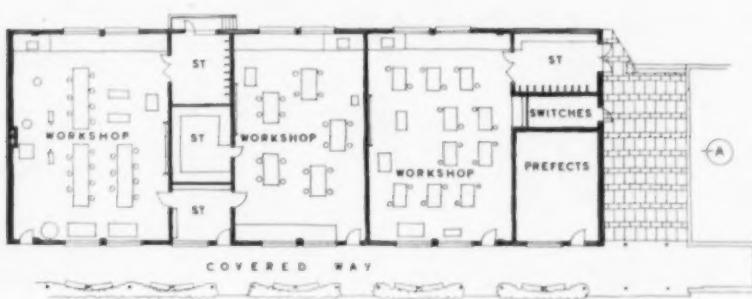
LONGITUDINAL
SECTION A-A

WORKSHOP BLOCK

LONGITUDINAL SECTION A-A



PLAN. Scale: 1 in = 32 ft



Interior of metalwork shop

*Continued from page 245*

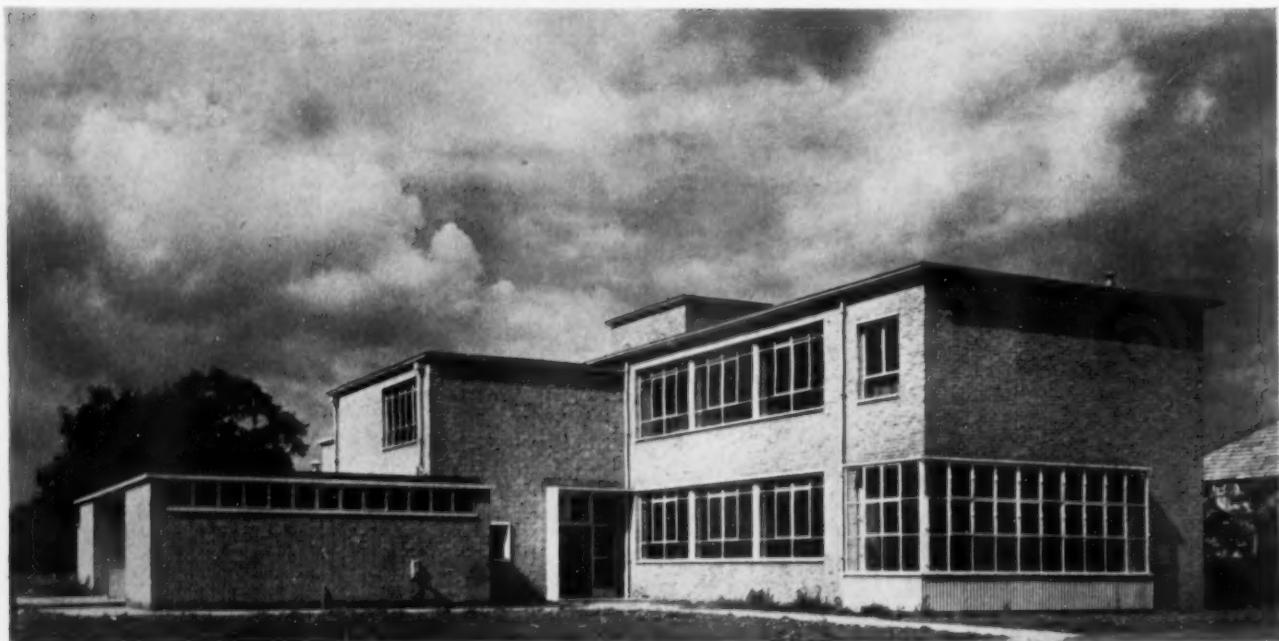
prevailing during 1950. Timber was not available for formwork.

The three-storey blocks are steel-framed on a 10ft and 12ft grid, clad internally with $\frac{3}{4}$ in gypsum fireproof board fixed to beams and stanchions with galvanized wire and rendered $\frac{1}{2}$ in gypsum plaster. This gives a fire-resistance of 2 hours. The ground floors are of mass concrete on hardcore, and suspended floors and roof slabs R.C., the latter being screeded with a lightweight foamed-slag aggregate.

The walls are of two types generally, 11in cavity and a cavity wall consisting of an inner 4 $\frac{1}{2}$ in brick wall with, externally, precast concrete slabs with an exposed aggre-

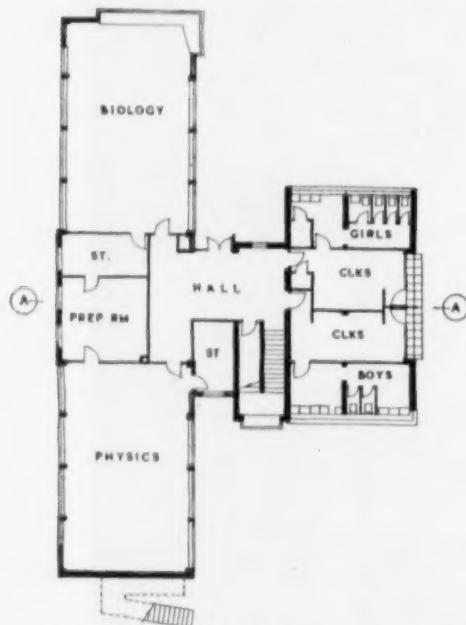
[Continued on page 249]

Downer Secondary Grammar School, Harrow



View from the South

SCIENCE BLOCK

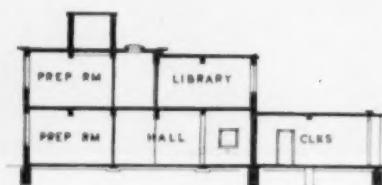


GROUND FLOOR PLAN

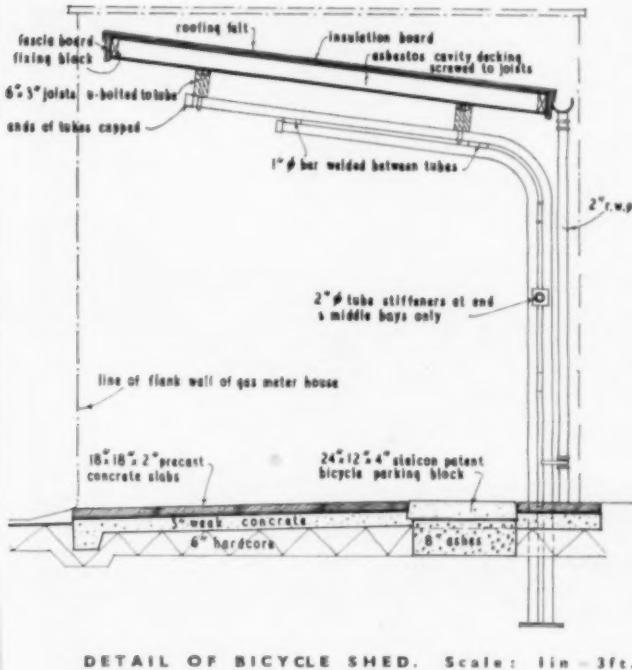


FIRST FLOOR PLAN

CROSS SECTION A-A



Scale: 1 in = 32 ft



DETAIL OF BICYCLE SHED. Scale: 1 in - 3 ft.

Continued from page 247]
gate finish. The arts and crafts block has sound insulation between floors.

The gymnasium has steel portal frames at 10ft centres spanning 40ft, with aluminium roof decking exposed on the underside, and the workshops are constructed with a steel space frame, and incorporate north-lights.

Finishes

The roofs are of three-ply felt with a green slate finish. There are suspended fibreboard ceilings to the assembly hall and dining rooms. The windows are galvanized steel with pressed-metal mullions to the steel frame. Internal walls to corridors are of cream flint bricks generally, and cloaks and lavatories have a cement glaze finish.

The floors of teaching and staff rooms are covered with thermoplastic tiles. The assembly hall, science laboratories, dining rooms and workshops have wood-block floors.

The colour scheme is selected from the Munsell range and is predominantly light grey and white, with small areas of bright colours.

The external facing bricks are Essex and yellow stocks with cream pointing.

Domestic Science room, Arts and Crafts Block, p. 246. Note the dining-recess at the back on the right-hand side.

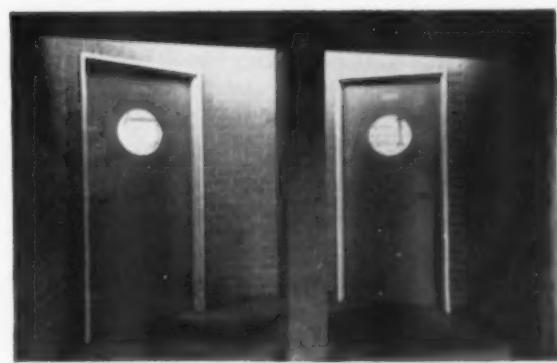


Recessed classroom doors with clerestory lighting. Arts and Crafts Block.

General Contractor:

LESLIE & Co. Ltd.

Acoustics: John Dale, Ltd. **Cloak Fittings:** Parker, Winder & Achurch, Ltd. **Cold Glaze:** Modern Surfaces, Ltd. **Cork Tiles:** E. J. Elgood, Ltd. **Cycle Sheds:** Tubergartens, Ltd. **Electrical Installation:** Service Electric Co., Ltd. **External Tiling:** John Stubbs (Marble & Quartzite), Ltd. **Flooring:** Marley Tile Co., Ltd.; The British Art Tile Co., Ltd.; Caledonian Concrete Products, Ltd.; Carter & Kernahan, Ltd.; Hollis Bros.; Viger Bros., Ltd.; Zanelli (London), Ltd. (Terrazzo). **Gates and Balustrading:** Light Steelwork (1925), Ltd. **Heating:** Edward Deane & Beale, Ltd. **Ironmongery:** Clark Hunt & Co., Ltd. **Joinery:** Manor Joinery Works, Ltd. (Doors); Groves & Sons, Ltd. (Fittings). **Lighting Fittings:** Hume Atkins & Co., Ltd.; Thorn Electrical Industries, Ltd.; S.L.R. Electric, Ltd. **Paint:** Leyland Paint and Varnish Co., Ltd. **Patent Glazing:** Aygee, Ltd. **Precast Slabs:** F. Bradford & Co., Ltd. **Reinforcement:** Twisted Reinforcement, Ltd. **Roofing:** Wm. Briggs & Sons, Ltd.; The General Asphalt Co., Ltd.; Permanite, Ltd. **Sanitary Fittings (Science):** T. A. Harris, Ltd. **Sanitary Goods:** B. Finch & Co., Ltd. **Stage Fittings, Curtains and Blinds:** Tidmarsh & Sons. **Structural Steelwork:** Smith Walker, Ltd. **Tar Paving and Roads:** Constable Hart & Co., Ltd. **Terrazzo (Partitions):** Terrazzo and Tile Products, Ltd. **Windows:** The Crittall Manufacturing Co., Ltd.





Front elevation

New Dormitory Building, Wembley Fire Station

C. G. STILLMAN, F.R.I.B.A., County Architect, Middlesex County Council

D. R. DUNCAN, O.B.E., A.R.I.B.A., Area Architect

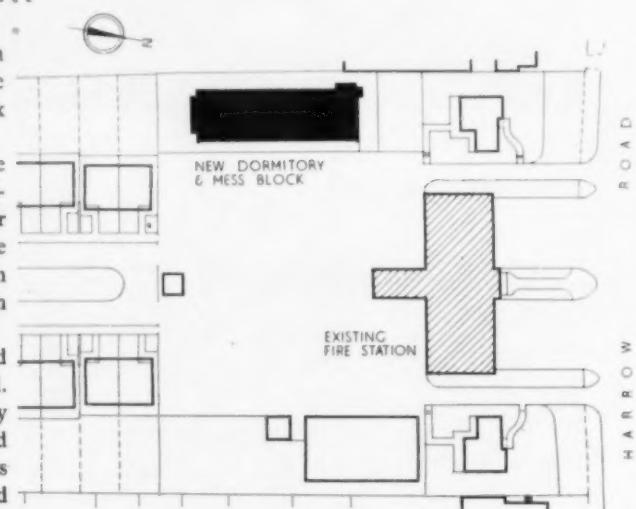
L. J. TERRY, A.R.I.B.A., Assistant Architect

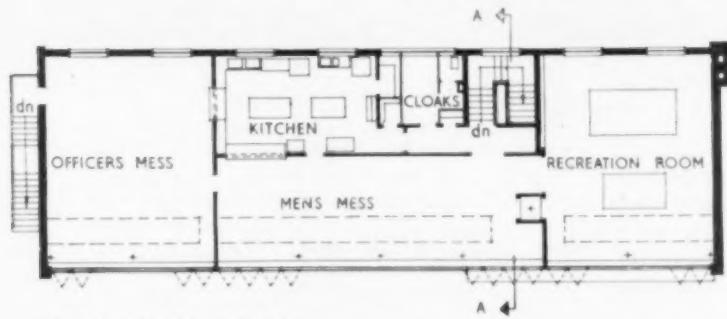
THE erection of a new dormitory block and extension of the existing building was executed for the Fire and Ambulance Service Committee of the Middlesex County Council.

The requirements of this project was to transfer the Headquarters staff from its temporary post-war accommodation at Pinner. Wembley Fire Station was chosen for the purpose because of its convenient administrative position in the county and because a large Fire Station (of reinforced concrete construction) had been built in 1939.

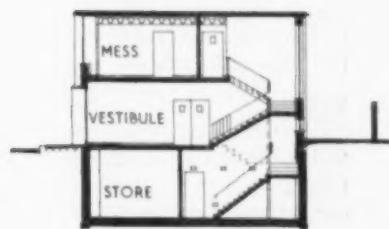
A new two-storey building and basement was erected facing the drill yard to accommodate station personnel. The ground floor consists of a large dormitory for duty fire and ambulance crews, station office, lavatories and showers. The first floor consists of two messes, kitchens and recreation rooms, and has been designed to afford

[Continued on page 252]

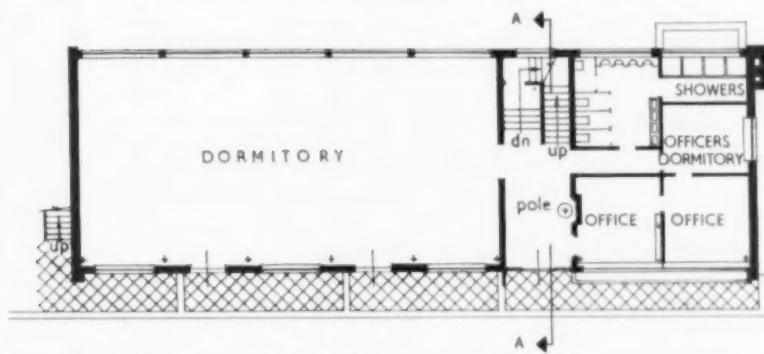




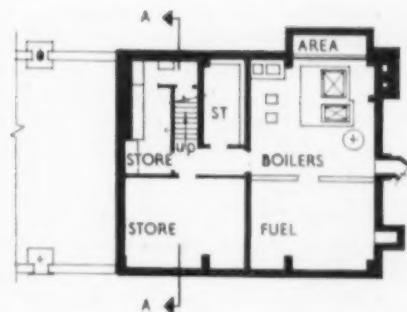
FIRST FLOOR PLAN



SECTION A-A



GROUND FLOOR PLAN. Scale: 1 in = 24 ft



BASEMENT



The existing fire station with additional second floor, from the South-East.

Wembley Fire Station

Continued from page 250]

to spectators an unobstructed view of displays held in the main drill yard.

Construction

The two-storey dormitory block has a structural frame which consists of circular steel columns carrying welded tubular lattice trusses. The foundations are mass concrete to the stanchions with reinforced concrete ground beams spanning between them. The flank walls are 14in solid brickwork, the long back wall is 11in cavity brickwork and the front wall 11in cavity brickwork and precast concrete panels with an exposed aggregate on a 4½in brick backing. The exposed aggregate at first-floor level is green Criggion, a Welsh stone; on the ground floor Mount Saul stone was used, giving a reddish colour. Internal partitions are of 4½in brickwork. Floors are reinforced concrete and hollow tiles, windows and cills are steel, the staircases are reinforced concrete.

Finishes

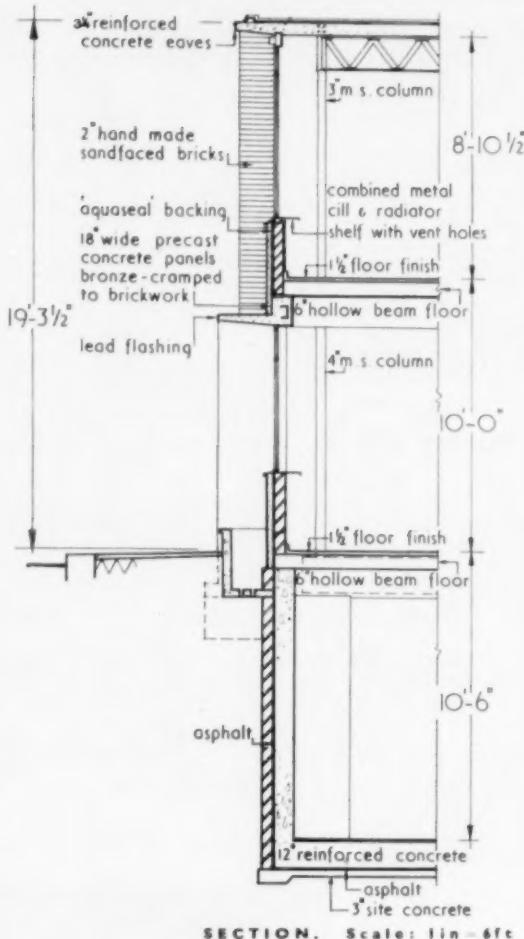
Internal walls generally are plastered and painted, the floors are generally wood block, ¾in Muhuhu, an African hardwood, with exception of the kitchen, lavatories, etc., which are covered with quarry tiles. The Colours internally are generally pale grey structure and yellow walls, white kitchen and the entrance hall grey with Marigold grano floor and blue stair hall.

Tungsten lighting is used throughout, the boiler uses solid fuel and the convector heating system is boosted by an accelerator pump. The sliding pole is 3½in in diameter with a chromium finish. In the first-floor mess rooms and recreation room a 10in high collapsible platform has been supplied to accommodate a second row of spectators when displays are held in the yard. At these times the sliding windows, in three sections, can completely open up the first floor.



Men's mess

THE ARCHITECT and Building News, 26 August 1954



SECTION. Scale: 1 in = 6 ft

Electrical Consultants :
G. H. BUCKLE & Partners

General Contractors :
PRESTIGE & Co., Ltd.

Artificial Stone: Girlingstone, Ltd.
Asphalt: Durable Asphalt Co., Ltd.; Natural Rock Asphalt, Ltd.—Bricks—Facing: Henry J. Greenham (1929), Ltd. Cavity Decking: Roberts Adlard & Co., Ltd. Concrete Paving Slabs: F. Bradford & Co., Ltd. Concrete Facing Panels: Fabricrete Products, Ltd. Electrical Installation: Electrical Installations, Ltd. Floors: R. A. Brooke & Co., Ltd. (Wood Block); Kendell's Flooring, Ltd. (Terrazzo Floor & Dadoes). Flush Doors: Leaderflush, Ltd. Glass & Concrete Window Extensions: J. A. King & Co., Ltd. Heating & Hot Water Installation: James Combe & Son, Ltd. Ironmongery: Lockerbie & Wilkinson. Metal Balustrades: Light Steelwork (1925), Co., Ltd.; Clark Hunt & Co., Ltd. Photographic Dark Room Fittings: Geo. M. Hammer & Co., Ltd. Pole House Doors: Opening Gear: Yannidis & Co., Ltd. Reinforced Concrete & Hollow Tile Floors: Caxton Floors, Ltd. Removable Sectional Platform: Cubicon, Ltd. Roller Shutters: Acme Blinds (Ilford), Ltd. Sanitary Fittings: Shanks, Ltd. Semastic Tile Floors: Hollis Bros., Ltd. Steelwork: Smith Walker, Ltd. Stramit Partitioning: Roof & Lining Construction, Ltd. Terrazzo Partitions: The Mosaic & Terrazzo Precast Co., Ltd. Windows—Metal: Monk Metal Window Co.; James Gibbons, Ltd.

DOMESTIC ELECTRIC INSTALLATIONS

SOCKET OUTLETS AND PLUGS

One of the most important characteristics of any domestic electric installation is the flexibility it affords in the use of portable electrical appliances, any of which can be used in any room where they may be required from time to time. This, in fact, is a major requirement which many installations unfortunately fail to fulfil. The system involved—that of socket outlets and plugs—has long been familiar, but now that the number of types in common use has been reduced, and each type standardised, it becomes important that the principles involved in the provision of a convenient, efficient and economical socket outlet installation, should be appreciated.

Current Standard Types of Socket Outlets and Plugs

The medley of plugs and sockets of different types and sizes which are found in old houses and flats are by-products of the growth of electrical installation practice now superseded by the series of British Standard designs illustrated in Fig. 1. Whatever the wiring system used in any new installation, these three-pin plugs must be attached to all appliances not permanently connected; an adequate number of socket outlets should therefore be provided to receive them.

Earthing Facilities Essential

The proper 'earthing' of all appliances in every room where there is any 'earthing metal', e.g. water or gas pipes, central heating pipes and radiators, or metal windows is required by the Regulations for the Electrical Equipment of Buildings issued by the Institution of Electrical Engineers, which govern installation practice. In effect, two-pin sockets are now obsolete.

The Universal 13 amp. Socket Outlet and Fused Plug

Designed particularly for use on a ring circuit (see D.I.2) to enable an adequate number of socket outlets to be provided at minimum cost, this universal socket outlet, made to B.S. 1363, is not so widely used as it deserves to be. Its outstanding advantage is that every portable appliance from the smallest lamp to the largest heater can be plugged into the one size of socket outlet. It is no longer necessary to put up with the inconvenience of different sizes of sockets for 'light' and 'power' with the consequent limitation that appliances can only be used in positions where there is the right size of socket outlet to take the plugs attached to them.

The plugs to fit this universal socket outlet are made with flat pins which are much easier to insert and withdraw than the old type. Each plug contains a fuse which can be sized according to the loading of the appliance connected to it: three sizes are standardised: 3 amp. (i.e. for lamps and small appliances taking not more than 700 watts at 240 volts), 7 amp. (1,500 watts), and 13 amp. (3,000 watts). Should a fault occur in an appliance or its flexible cord, only the fuse in its plug will 'blow', all other appliances (and lights) remaining unaffected. The replacement of the fuse in the plug is a simple on-the-spot affair and does not entail a journey to the service unit or, as so often happens, a hunt in the dark to find the fuse affected.

The Flexible Connection

Every flexible cord, irrespective of the type of appliance to which it is fitted, should contain an earth wire which is properly connected to the framework of the appliance and the earth pin of the plug. It should be of an unbreakable type, and never laid over the floor across footpaths, or under rugs or carpets where any deterioration will pass unnoticed with an increased risk of fire. Flexible cords are the most vulnerable part of the installation: they should be regularly inspected for defects and replaced—never patched—when any are observed.

Number of Socket Outlets Required

Socket outlets are notoriously scarce in the majority of houses and flats in spite of the large number of portable appliances in general use, which increases year by year. An adequate number of socket outlets should therefore be installed at the outset, to enable full advantage to

TABLE 1 USE OF SOCKET OUTLETS

	1-3	Socket Outlets
Hall and Landing	6-10	"
Living Room	5-8	"
Double Bedroom	3-5	"
Single Bedroom	6-8	"
Kitchen & Utility Room	1-3	"
Garage	6-10	"

TABLE 2 USE OF PORTABLE APPLIANCES

HALL, LANDING, PASSAGE

Clock, Convector, Floor Polisher, Lamp, Panel Heater, Radiator, Tubular Heater, Vacuum Cleaner.

LIVING ROOM, DINING ROOM, STUDY

Breakfast Cooker, Cine-projector, Clock, Convector, Fan, Fire, Floor Polisher, Grill Boiler, Heater with Fan, Jug, Kettle, Lamps (Standard and Portable), Panel Heater, Percolator, Radiator, Radio, Radiogram, Record Player, Sewing Machine, Tea Maker, Television, Toaster, Trolley, Tubular Heater, Vacuum Cleaner, Waffle Iron, Warming Plate.

BATHROOM

No socket outlets allowed: Fire, Radiator, Towel Rail permanently connected.

BEDROOM

Bed Warmer, Clock, Connector, Electric Blankets, Fan, Fire, Floor Polisher, Hairdryer, Heater with Fan, Iron, Lamps, Panel Heater, Radiator, Radio, Shaver, Tea Maker, Trousers Creaser, Tubular Heater, Vacuum Cleaner.

KITCHEN, UTILITY ROOM

Boiling Ring, Breakfast Cooker, Clock, Clothes Dryer, Convector, Cupboard Heater, Dishwasher, Drying Cabinet, Fan, Fire, Floor Polisher, Freezer, Fruit Steriliser, Grill Boiler, Iron, Ironer, Jug, Kettle, Lamp, Mixer, Panel Heater, Percolator, Radiator, Radio, Refrigerator, Table Cooker, Toaster, Towel Rail, Trolley, Tubular Heater, Waffle Iron, Warming Plate, Wash Boiler, Washing Machine, Water Heater.

GARAGE, WORKSHOP

Battery Charger, Car Heater, Convector, Glue Pot, Lamp, Lathe, Panel Heater, Portable Drill, Polisher, Sander, Saw, Radiator, Soldering Iron, Tubular Heater.

List of portable appliances likely to be used in different rooms: all can be operated from a universal 13 amp. socket outlet.

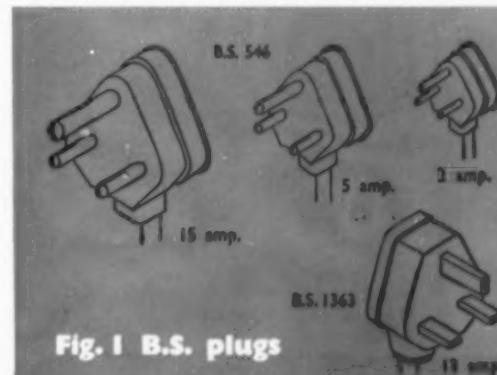


Fig. 1 B.S. plugs

D.I.1



Fig. 2 Insufficient socket outlets wrongly placed.

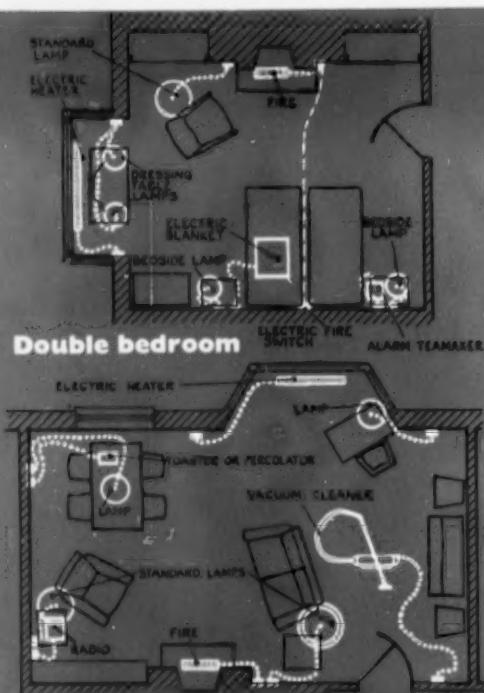


Fig. 3 Correct arrangement of socket outlets.

be taken of the amenities and economies afforded by electric appliances, and to avoid the dangers of multi-plug adaptors with long trailing flexes, and makeshift wiring extensions.

A recommended schedule of socket outlets is given in Table 1; Table 2 will give an idea of the number of portable appliances which can be used in each room. In this respect it is interesting to refer to common practice in the U.S.A., where the installation of 65 socket outlets is considered normal in an average six-roomed house and even a mass produced two-bedroom economy house has 45 outlets.

Positions of Socket Outlets

The importance of the correct positioning of socket outlets does not yet seem to be fully realised even though the number generally installed is so low that careful placing is really essential. They should be easily accessible, not less than 5 inches and preferably as high as 9 inches above floor level except in kitchens and perhaps bedrooms where some will be required above table height.

Socket Outlet Positions in the Rooms

When working out the number and positions of socket outlets required, start by arranging the furniture on the plan. However approximate this may be, it will show the most likely positions of the larger pieces, and disclose the fact that the fireplace wall is *not* the only place for socket outlets. Table and standard lamps, and radio and television receivers are generally better served from side walls. A socket outlet each side of the fireplace will be required (e.g. for electric fire and clock); the others are best placed close to the corners of the room where they are less likely to be masked by furniture and will cover most floor space with the minimum length of flex (see Fig. 3). It is most important that flexes should not cross traffic ways in any room.

In bedrooms, the bed positions being determined in the planning stage, switched socket outlets can be installed waist-high above the bedside tables to serve reading lamps, shaver, alarm clock, automatic tea maker, electric blanket, etc. The switch controlling the electric fire can also be grouped with these socket outlets: there is no necessity for it to be against the socket outlet which serves the fire, or for anyone to have to get out of bed to switch it on or off. Socket outlets will also be required in convenient positions for the dressing table lights, and any other special needs.

No socket outlets should be provided in bathrooms: any electric heaters, fires or towel rails installed, must be connected direct to the mains.

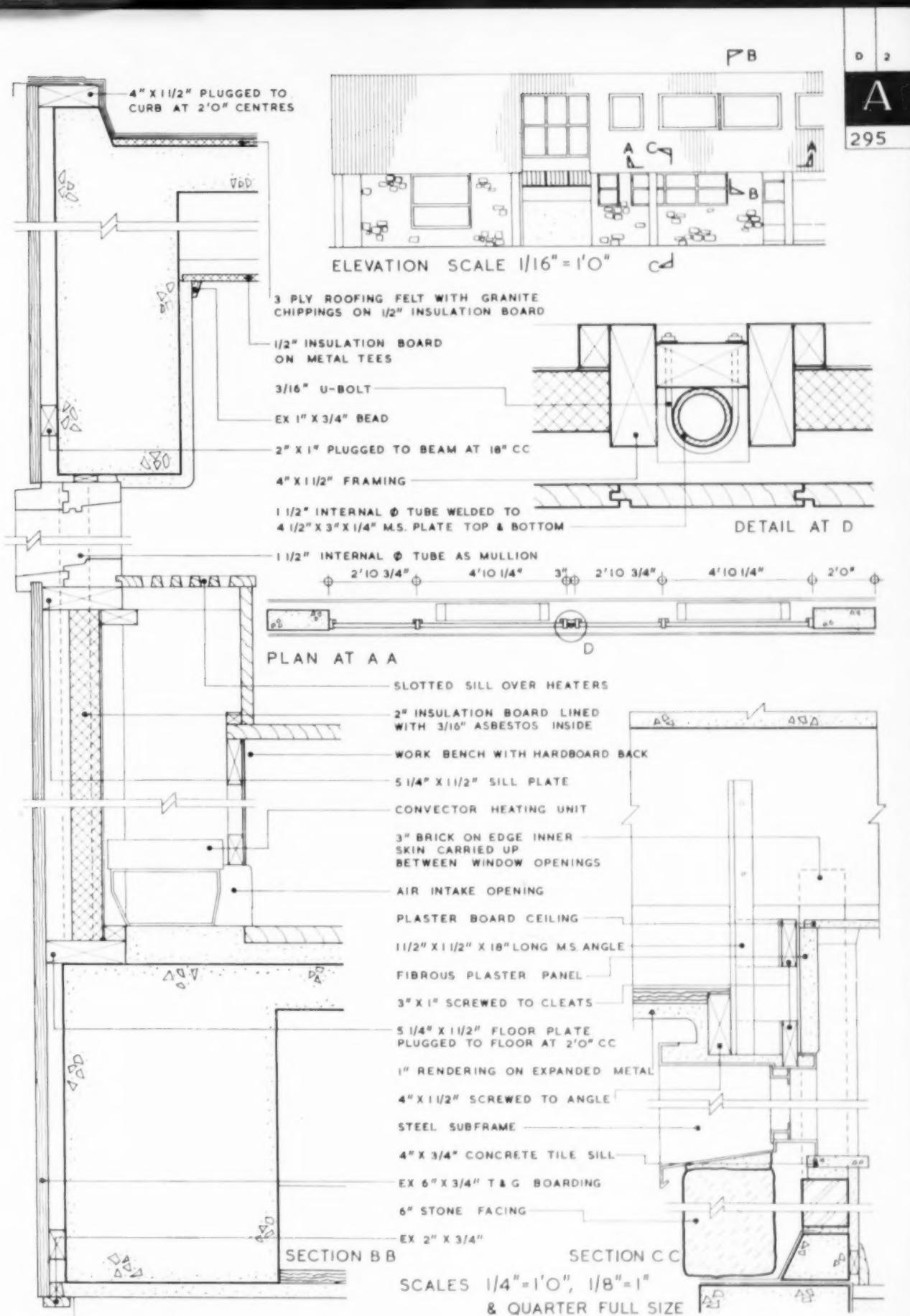
For the hall or landing, socket outlets will be required for a convector and to serve the vacuum cleaner or floor polisher and perhaps for a table lamp or two. As heater and lamps will remain plugged in, their placing will dictate that of the socket outlets.

In the kitchen, socket outlets will be required for drying cabinet or cupboard heater, iron and extract fan. For refrigerators the socket outlet should be placed alongside (*not* behind) the appliance, or within the cupboard framing for built-in types. The socket outlet serving the washing machine should not be in a position where it is likely to come in contact with water. Other socket outlets for a mixer, percolator, toaster, warming plate, etc., should be above working counter height, i.e. between 3 ft. 6 in. and 4 ft. 6 in. above the floor and away from the sink. Heater, towel dryer, clock and radio will also require socket outlets, their position being determined by the detailed kitchen plan.

In general, these socket outlets should be fitted with switches, and sited as near as possible to the place of use of the appliance for greater convenience and to avoid long flexes, considerations which will also govern the use of double (two-gang) socket outlets in any room.

For further details apply to

D.I.1 British Electrical Development Association





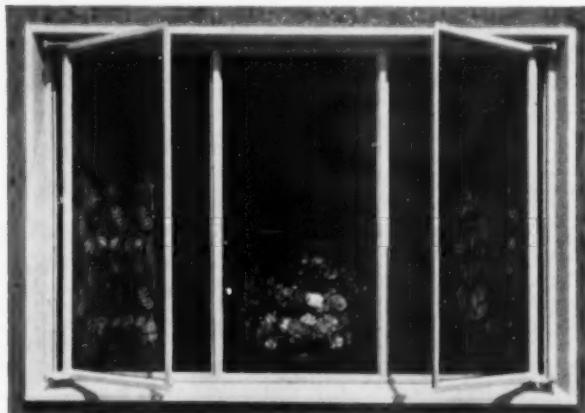
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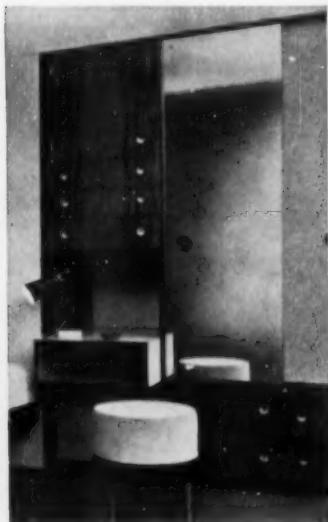
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NORTHCOTE CLINIC, Southall

C. G. STILLMAN, F.R.I.B.A., County architect, Middlesex County Council
 R. T. GRUMMANT, F.R.I.B.A. Group architect, minor works
 W. L. CLARK, A.R.I.B.A., Assistant architect

THIS "Mother and Child Welfare" Clinic is the first to be completed in the post-war Building Programme. The Clinic provides for the treatment of children's minor ailments in conjunction with a School Clinic, ante- and post-natal treatment, two dental surgeries with a recovery room, staff accommodation, and the sale and distribution of welfare foods.

The extremely restricted site made a compact plan essential; this was achieved by making the waiting hall the central space around which are grouped all the various rooms.



Construction

Generally strip foundations were used except where some existing sumps were discovered. R.S.J.s were used as reinforcement in these cases.

Walls are 11in cavity construction, both leaves of brick. Internal partitions; 9in solid brickwork round the waiting hall with 13½in piers as stiffeners, otherwise 3in breeze concrete blocks were used.

The floor slab was laid on 6in of site concrete waterproofed with two layers of Synthaproof which was carried 6in up the walls and marred with the D.P.C.

The roof was composed of 5in and 7in precast prestressed concrete beams, 12in wide. The wide eaves to the main building is a purpose-made pressed steel gutter fixed to the ends of the concrete units. Standard metal windows are used throughout.

Finishes

The walls externally are Fletton Autumn Tints facing bricks with a pale blue weathered struck joint, the boiler house was built in St. Andrews Cross bond with "bucket handle" joints. Internal walls are hard plastered up to 3ft 6in, ordinary plaster above with rounded Keenes cement arrises. All walls and ceilings are painted with plastic emulsion paint.

Floors have a 2in screed covered with Thermoplastic tiles and skirting, with the exception of the waiting hall, office and food-sales and the staff room which had wood block floors and timber skirting.

The roof was covered with 2in of vermiculite screed, black sheathing felt and 3in asphalt, finished with white spar topping.

Northcote Clinic, Southall



Waiting hall



Dental surgery

Services

Lighting is by tungsten filament lamps, heating by solid fuel boiler with manual stoking. The hot water heating boiler is rated at 252,000 B.T.U.s and is thermostatically controlled. Heating is by surface radiators and high level coils with a forced flow convector in the Waiting Hall.

A ring drain runs around three sides of the building before connection to the existing separate drainage system.

Joinery

The internal window to the office and food-sales department is made in Oak, it has a splayed surround with a natural polish. In it there are three $\frac{1}{2}$ in polished plate windows, the centre one sliding in a velvet lined pressed steel track. The moving window has been drilled with a pattern of $\frac{1}{2}$ in holes at $\frac{1}{2}$ in centres forming a speech panel.

In the dressing room there are three cubicles which fold back against the wall to form an extra consulting room when necessary. Formed in 2 by 1 in framing

faced with $\frac{1}{2}$ in plywood on both sides, each cubicle is equipped with a folding hardwood seat, three hat and coat pegs and a mirror. All the W.C. cubicles and the recovery room screens were in Plymax metal-faced plywood.

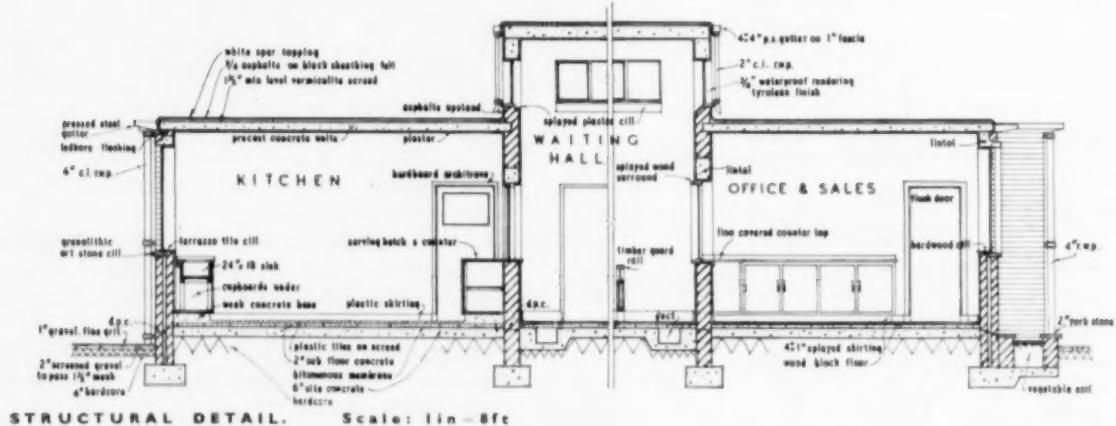
The vestibule door is in a glass block screen with a natural Oak surround. All the hardwood joinery is self finished.

Colour

Generally all softwood joinery internally is painted broken white. This includes architraves, plinth blocks, door frames, skirtings and built-in furniture. The recessed plinths to the built-in furniture are painted black. All internal plumbing and the flush doors were painted the same colour as the nearest wall.

The entrance hall has a white ceiling with Willow Green walls, the office a Mist Blue ceiling and Mushroom walls. The Dental surgeries have Light Blush ceilings with Willow Green walls. The Recovery room has a Light Blush ceiling with Persian Grey walls. The staffroom was papered with a blue and white pattern, the

[Continued on page 255]





When weight is a problem

Come to think of it, weight nearly always *is* a problem.

In almost every branch of industry—and particularly in transport—weight saved means greater all-round efficiency and economy.

That's where light, strong and durable 'Kynal' wrought aluminium alloys come in—enabling weight to be reduced without loss of strength. With the aid of the Technical Service and Development staff of I.C.I. Metals Division, engineers and designers are constantly finding new uses for 'Kynal' alloys.

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Shipbuilding: bridges, wheelhouses, outer funnels, lifeboats and davits, decks, skylights, stanchions, bulkheads, watertight doors, etc.

Building: roof coverings, side claddings, ventilators and windows, panelling, interior fittings, etc.

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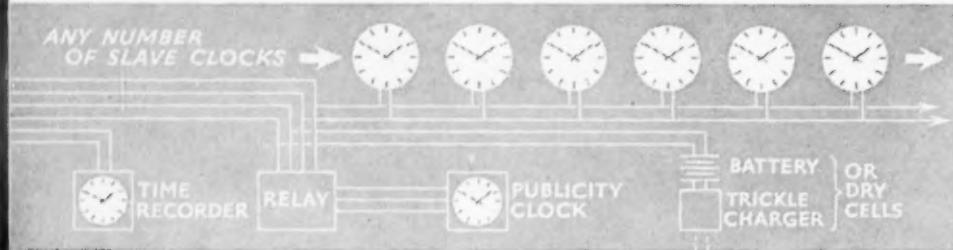
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M.323

PLAN for CLOCKS

In the newest and best buildings the clocks are regarded both as architectural features and essential amenities; they go in before the walls are plastered. Gibson clocks are being used a great deal in this way, either as individual clocks for one or two offices (worked by small self-contained dry batteries) or on an impulse system



302

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304

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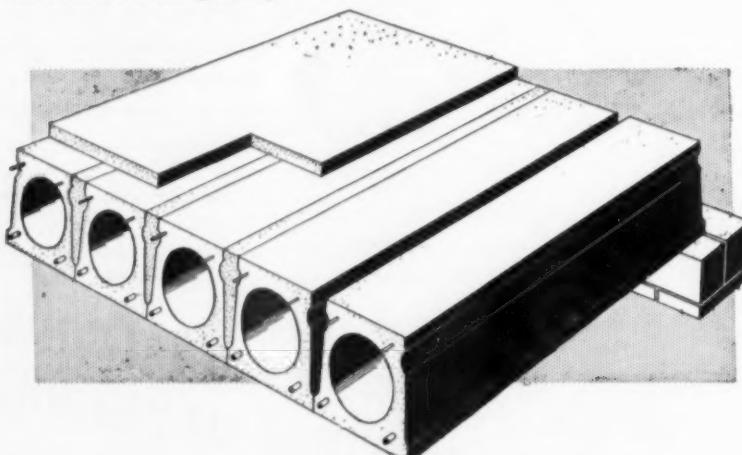
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MARLEY CONCRETE, Waterloo Pool, DORSET. *Broadstone 6261*



Continued from page 254]

ceiling is white. The Kitchen has a two-colour treatment, the window wall is pale primrose, the others beige.

The ante-natal room has a Mist Blue ceiling and Lotus Pink walls, the dressing room has these colours reversed. The cubicle screens and doors are deep French Beige.

The doctor's consulting room and eye-testing area has an Ice Green ceiling and Beige walls. The minor ailments dept. has a White ceiling and Pale Primrose walls.

The waiting hall ceiling and West wall are in Lavender; North and South walls are French Beige and the East Willow Green.

The fair-faced brickwork in the boiler house was painted Persian Grey.

Northcote Clinic, Southall

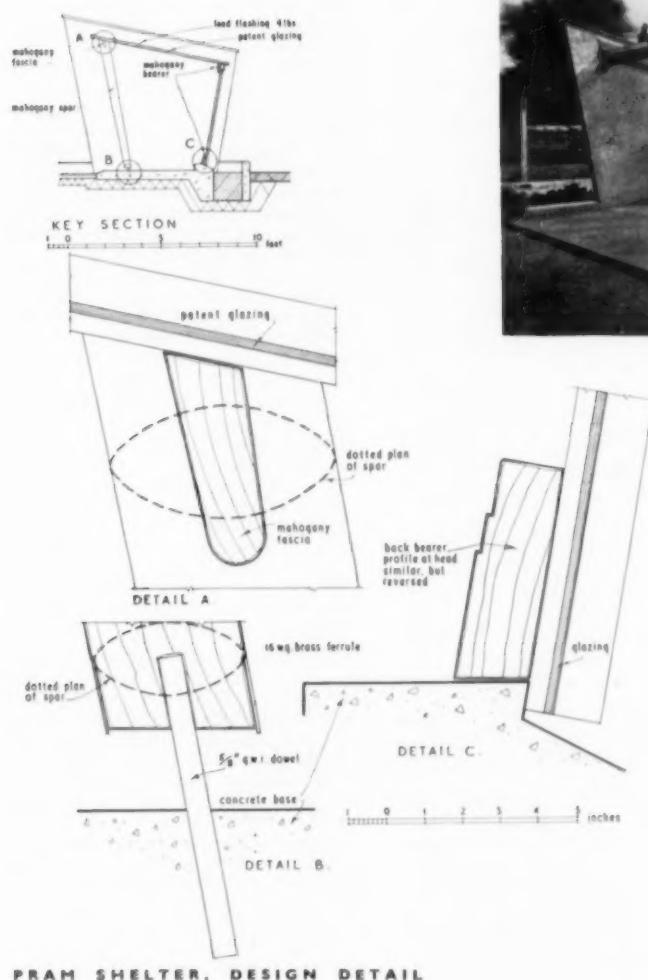
Exterior

The main gates and railings are broken white, the windows of the main building are the same colour. The external door to the recovery room and the boiler house doors are Golden Brown in a White frame. The gutters are painted Portland Stone with drainpipes and outlets in Golden Brown.

The front steps and the flower bed in front of the office are 2in York stone paving, paths are gravel and the rest of the site is grass.

The pram shelter had to be visible from within the Clinic and was designed as a relief to the formal lines of the main building. The end walls are in 4½in rendered brickwork; roof and back in patent aluminium glazing using Georgian wired cast glass. The timber framing is polished mahogany.

The pram shelter



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A Review of Planning Policy in 1953: X

The Minister's Reasons

By FRANK LAYFIELD

THE Ministry of Housing and Local Government have stated on several occasions that they wish "to keep authorities and others informed of important decisions involving new questions of policy" and also to show in their decisions "the application of planning principle to particular cases." Lastly they have said that they hope that their decisions will provide a body of material "to which reference can readily be made." An attempt has been made in this series of articles to extract from some of the Minister's decisions in 1953 some of the principles which are currently accepted. While it is hoped that some matters are fairly clear from such an analysis it has not been possible to take it as far as might be wished. This is due in the main, not so much to the lack of any principle behind many decisions, but it is submitted because of two patent defects in many decision letters.

The first deficiency in many such letters is their failure to set out the facts that were considered important in reaching the decision. It is often, for example, possible to guess what was in mind when a particular decision was made, but this is not good enough and there is rarely any sound reason why the matter should not have been set out honestly and with clarity. The second deficiency is one which must offer much more difficulty to those who have to make these decisions. It is that the reasons for the decision are not formulated clearly. All too often a decision is made which seems to be a reasonable outcome yet no apparent effort is made to explain why such a conclusion was reached. Frequently the reason or reasons given are no reasons, being merely an efflorescence of jargon. Despite the Ministry's own strictures on the use of jargon they use hideous examples of it themselves. Several recent decisions (i.e., in 1954) have given as sole reasons the fact that the development proposed "would be detrimental to amenity" or "prejudicial to good planning" or "would be out of keeping with the existing development there." It would be tedious and unnecessary to embark here on a statement of the many good reasons why an effort should be made to make the decisions read like good sense. The hope that the Ministry have expressed that their decisions will show "the application of planning principles to particular cases" must wait on improved decision letters. In the present the Ministry does itself less than justice.

Before the war the Ministry of

Health, which was then the Ministry responsible for town and country planning matters, issued an annual report from which a special extract was published dealing with planning. This document afforded much useful guidance on policy matters. The Minister of Housing in reply to a question by Mr. A. J. Irvine in the House of Commons recently announced that he intends to resume the pre-war practice of publishing an Annual Report. While this is welcome news generally, it is particularly to be hoped that it may provide some assistance in the matter of planning decisions. Meanwhile, the Ministry have been giving attention to the speed with which these decisions are taken and this has already resulted in a much-needed reduction in the time the process takes.

Consistency and Continuity

Apart from the clarity with which the reasons for a decision are given is the question of consistency in policy. The interpretation of Ministerial decisions is made more difficult by the apparently contradictory conceptions to be found in different letters. This problem is well illustrated by two cases concerning Bedfordshire. Both these cases concerned the erection of bungalows near the village of Caddington. In each case there was an appeal against refusal by the local planning authority which was dismissed. In each case a few years later there was another appeal which was allowed.

In the first example the Minister in 1948 said in his decision letter that "your land is outside the proposed building development zone at Lower Woodside, and for this reason permission for the proposed development was refused.

"It is now generally agreed that residential development in rural areas should, as far as possible, be grouped with a view to preserving agricultural land and ensuring the economic supply of public services. . . . In the present case the Minister has no reason to question that the planning authority has made adequate provision for further residential development at Lower Woodside, including provision for some infilling around the road junction immediately south of your land. If the development under appeal were allowed it could not fail, in the opinion of the Minister, to encourage a further extension of building along the Manor Road frontages towards the village of Caddington to the north, and so prejudice the proper future planning of the area." In 1953 the matter was again the

subject of a refusal, and then an appeal. On this occasion the Minister noted that permission had recently been given for development of an adjoining plot to the east. He also noted the appellants' contention that there was a great demand for houses in that area. The council explained that circumstances had not altered since the earlier appeal. They explained that

"Permission had been given to the owner of the adjoining plot because it was found that the boundary line of the development area passed through his site and the council had considered it was reasonable to grant consent."

The Minister, having noted these arguments, decided to allow the appeal, saying that as regards the appellant

"It would be reasonable to allow him to build on his plot and that this can be done without prejudicing the Council's aim to avoid straggling development along Manor Road."

There is, of course, no good reason why the Minister should not from time to time change his policy both in general, and in particular, terms. No doubt the different decisions noted above are readily susceptible of clear explanation. Until such decisions are so explained, however, it must necessarily be difficult to follow the Minister's policy in the way he has said he wishes the public and local authorities to do.

In the second case, a nearby site was involved. On appeal in 1949 the Minister stated:

"He is unable to regard your proposal as constituting justifiable infilling between the existing hamlet and the farm at the bottom of the hill. He has already had occasion to consider the limits within which residential development at Lower Woodside should be allowed, and is satisfied that it would be wrong to permit further building in a southerly direction beyond what already exists at the junction of Woodside Road and Manor Road."

And the Minister accordingly dismissed the appeal. When the matter came before him again in 1953 the appellant said he wished to establish a smallholding. The Minister said he considered that, in the circumstances,

"It would be reasonable to allow the proposal and that this can be done without prejudicing the Council's general policy for limiting developments south of Manor Road and for preventing further encroachment on to farm land. He has accordingly decided to allow the appeal."

Again the difference in decision can no doubt be clearly explained, but such

apparently contradictory decisions surely require careful explanation.

Under Section 104 of the Town and Country Planning Act 1947, the Minister is empowered to direct the payment of costs but this is rarely done. The Minister will award costs against a local planning authority only, as he made clear in the House of Commons (Hansard, 30 Jan., 1951) when he considers that they have acted unreasonably. To date there is no indication what conduct by a local authority he would consider unreasonable. It is, however, possible to give some indication of the conduct by an appellant he regards as unreasonable. In an early case costs were awarded against an advertising contractor. The firm applied for permission to erect a pictorial sign for the benefit of a Brewery company on certain land which was refused on the ground that "the proposed development was undesirable and would be detrimental to the amenities of the locality." The decision went on to observe that "It was established at the Inquiry that this brewery company were not the owners of the site under appeal, that the owner himself had not been approached and that he would not in any event have agreed to the proposal." In another appeal in 1953 the appellant asked (for the third time) to be allowed to use certain land at Taplow for siting caravans. "The first appeal concerned a proposal to use the northern part of the estate for forty caravans and the southern part for sixty caravans. This appeal was dismissed on August 10, 1951. The second appeal concerned a proposal to use the same land for the same number of caravans but for a limited period of ten years. On June 18, 1952, that appeal was also dismissed . . . The present proposal is to use the southern part of the estate for eighty caravans for a period of fourteen years and to continue the use of land in the northern part of the estate for eight caravans for a period of one year. These sites are the same land as formed the subject of previous appeals . . . [The Minister has decided to dismiss the appeal . . .

Moreover, although it was claimed on the appellant's behalf that new factors had arisen since the first two appeals were decided, the Minister is of the opinion that there is no significant difference between the present and the earlier proposals and the circumstances surrounding them. He has therefore decided to make an award of costs against [the appellant]."

The order as to costs required that £31 10s be paid to the County Council and £4 4s each to seven interested persons who owned neighbouring land and were parties who appeared at the Inquiry.

General

There are, of course, considerable difficulties to be overcome in formulating clear lines of policy in planning. Yet despite the foregoing comments much progress has been apparent

recently in the way in which decision letters are framed. This has made possible the analysis of decisions which has been essayed in this series, and which, it is hoped, may be of some value to those who are concerned with planning applications. Soon, however, the importance of a planning appeal is likely to be greatly enhanced. Not only is the rate of development now causing the number of inquiries to rise sharply but an even more important factor is soon to make its appearance. When the new Town and Country Planning Bill becomes law the system designed to replace the development charge scheme will be complete.

The effect of this will be among other things to make planning permission a very valuable thing in financial terms. In the past development charges took away a good deal of the value of planning permission, but that is no longer so. It is likely therefore that a good deal of additional interest will attach to the outcome of applications for planning permission. In these circumstances clear lines of policy are particularly to be desired. Some of these have become more apparent during the course of 1954 and it is hoped to review the effect of such decisions in due course.

(This article concludes the series.)

Carlite Pre-mixed Plaster with Perlite

A new, pre-mixed plaster containing Perlite is being introduced in this country we are informed.

Perlite is the name given by geologists to a glassy, volcanic rock of concentric, shelly structure with the property that its chemical make-up includes a small percentage of combined water. The presence of this combined water allows this mineral to be expanded to many times its original volume.

Perlite can in some ways be likened to pumice, a volcanic rock which has been partially expanded by nature, although to nothing like the extent and lightness of man-expanded Perlite.

The process of expanding Perlite is known technically as "intumescing" and is basically not dissimilar to "exfoliating" vermiculite, inasmuch as expansion is caused by the rapid expansion of the combined moisture when the raw material is suddenly subjected to high temperatures.

With Perlite, however, there is the further requirement that the ore, which is virtually a volcanic glass, must be at softening point before expansion takes place, otherwise the material will simply shatter into dust. Such being the case, a degree of "pre-heating" is often required before the ore is submitted to expansion temperatures.

Before expanding the Perlite ore is crushed and accurately screened to sizes which, after expansion, produces

a product graded for its special purpose. The expanded material is a lightweight, non-combustible, glass-like bubble of cellular structure, light grey or white in colour. Weights can vary over a very large range, but for normal purposes are confined between 3 lb per cubic foot and 10 lb per cubic foot.

The plant necessary to expand Perlite successfully over these ranges requires to be capable of an infinite variety of high temperatures both in pre-heating and expanding sections, and, if the product has to be consistent in weight and quality, capable of temperature control within extremely fine limits.

The strength of expanded Perlite allows it to be mixed with plaster in fairly high proportions, while its close resemblance to sand in nature gives the plaster the free working properties to which a plasterer is accustomed, albeit considerably less than half the weight of sanded plasters.

Perlit Plasters will be available shortly. These will have many advantages, particularly their lightness, high elasticity to resist cracking, complete freedom from shrinkage cracks, and a strength to stand up to severe wear and tear. In addition, they have a high thermal insulation value and high fire resistance.

Tests on this material are proceeding at the National Physical Laboratories, but meantime it is claimed that the figures of interest to the building industry for a typical plaster mix will be—

Thermal insulation: "k" = 1.0 to 1.1.

Wt. per cu ft wet: 63.7 lb.

Wt. per cu ft dry: 37.3 lb.

Elasticity: 3 times that of a comparable sanded plaster.

Compressive strength (dry): 450 to 500 lb p.s.i.

Saving in weight per 100 sq yd plastering: Approx. 1.3 tons.

It is expected that the cost of plastering with pre-mixed Perlite Plasters will be within competitive range of the traditional plastering materials.

A survey of increased plastering production using lightweight aggregates has shown an increased output of about 25 per cent. The importance of the reduction in the "fatigue factor" was shown by the fact that the increased production was greater in afternoons than mornings compared to using sanded plasters over similar periods.

The appropriate uses for expanded Perlite concrete or cement lie in roof screeding; in non-load-bearing roof structures; in lightweight precast curtain walls; in sub-floor slabs below radiant-heating coils, etc. In all these applications the cellular structure of Perlite and its strength produces lightweight concrete of high thermal insulation value and high fire resistance, it is claimed.

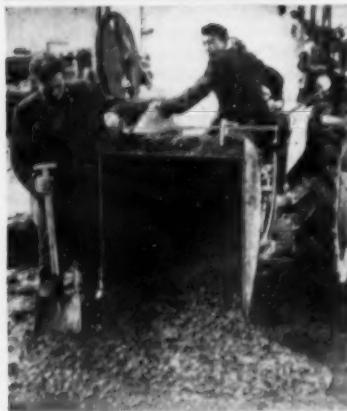
Perlite is now being used as an aggregate of Carlite pre-mixed plaster.

MOSAICS



FITTINGS
SANITARY
C 2/21

The Bunnie Electrical Incinerator, by Wandsworth Electrical Manufacturing Co. Ltd. of 136, Cromwell Rd., S.W.7, is claimed to be the only one on the market equipped with an electric exhaust fan. It is made with a refractory brick interior to avoid corrosion and a furnace-type element is used which ensures a long life. By reason of the extract fan more than one incinerator can be fitted to a common flue. A five-amp. socket is sufficient for operation, which is completely automatic. The cycle can be set from five to ten minutes' duration, set off by the opening of the top hatch.



PLANT
DUMPER
E 7/10

A new tractor-mounted implement, the Ferguson Dump Skip, by the Massey-Harris-Ferguson Organization, of Coventry.

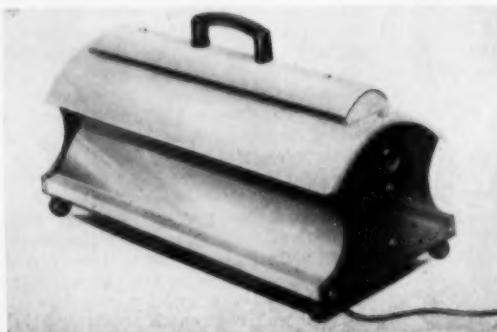
The Dump Skip was designed by Messrs. Fewsters (Stocksfield) Ltd., of Blaydon-on-Tyne, for mounting on the 3-point linkage of the Ferguson tractor. It can be attached or detached by one man in under two minutes by use of the built-in stand. The tractor, therefore, can be freed easily and quickly for other work. The tractor hydraulic system is used to assist the mounting of the implement, which in turn locks the tractor lower links, thereby allowing the tractor hydraulic system to operate a High Lift Loader if required.

The skip has a 10 cu ft Struck capacity, takes the full charge of a 10.7 concrete mixer and weighs only 2½ cwt.



SERVICES
SPACE HEATING
B 3/52

The "Stelrod" wall radiators are easily formed into special shapes and sizes to order. A common request is for a radiator to line the insides of a bow window. These radiators may be made in any length and from 18in to 30in high. An unusual feature is that the radiator illustrated is required for cooling the walls of a glass melting tank so that operatives can work close up. Made by Steel Radiators Ltd. of Southall, Middlesex.



SERVICES
SPACE HEATING
B 3/53

The "Vectorad" space heater is a combined convector-radiator made by Dorset Light Industries Ltd., East St., Bridport, Dorset, which has had special attention paid to safety during the heat upwards if required. Size: 20in long, 10in wide and 12in high. Weight 5lb. The standard finish is Birmabright, the de Luxe in a variety of two colour arrangements.

INDUSTRIAL NOTES

● Special arrangements are being made for architects to visit the Williams & Williams showroom in Bristol. This showroom, which is situated at the Metal Agencies building at Colston Street, Bristol, shows a comprehensive range of Williams & Williams products, and during the week commencing September 27 it will be fully staffed by Williams & Williams representatives up to 8 p.m. every evening, and 5.30 p.m. on Saturday.

All interested in this firm's products are invited to visit the showroom during this week.

As from September 6, the Bristol Office of Williams & Williams (South Western), Ltd., will be situated at 6, Priory Road, Bristol, 8.

● The British Iron and Steel Research Association has formed a Corrosion Advice Bureau in order to deal adequately with the numerous enquiries that are received for advice on the prevention of corrosion of ferrous metals.

The Bureau will be situated at 140 Battersea Park Road, London, S.W.11 (Telephone Macaulay 5511). J. C. Hudson, D.Sc., D.I.C., A.R.C.S., F.I.M., has been appointed head of the Bureau and E. E. White, F.R.I.C., secretary, W. H. J. Vernon, O.B.E., D.Sc., Ph.D., D.I.C., F.R.I.C., F.I.M., has been engaged as consultant.

The services of the Bureau will normally be free to members of the Association, and also available to others on a fee-paying basis depending on the extent of the investigations required.

● Meldrums, Ltd., furnace, stoker and destructor manufacturers, established since 1884, are now closing down. All existing records of stokers, furnaces and destructors have been purchased by the Meldrum, Flood-Page Co., Ltd., Millwall, London, who will continue to supply new equipment and replacements for existing installations. Mr. Roland Orrell, M.I. Plant E., and an Associate of the Institute of Fuel, has been seconded by the Brockhouse Company to Meldrum, Flood-Page to advise on all matters relating to Meldrum installations.

● The fourth edition of the Fibre Building Boards Register is now published. The Register lists brands of fibre and chipboard now available and gives information about each under the following headings:—Type, Standard Sizes, Thicknesses, Square feet per ton, Producer, Agent or Concessionaire. The information is printed in an easily usable form and should prove valuable to all those wanting up-to-date information about these rapidly expanding materials.

The 1954 edition of the Wood Preservatives Register is now available. Over sixty types of wood preservatives are listed and information on each is given under the following headings:—Method of Application, Absorptions, Special Recommendations, Manufacturer, Licensed Processors or Distributors. Now that more and more attention is being given to adequate preservation, architects and builders will find that the Register provides a useful starting point for further enquiries. Copies of both registers are obtainable at 1s 9d each from the publishers: The Middlesex Publishing Co., Ltd., 194-200, Bishopsgate, London, E.C.2.

Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the

CONTRACT • NEWS •

address it is the same as the locality given in the heading, (c) deposit, (d) last date for application, (e) last date and time for submission of tenders. Full details of contracts marked ★ are given in the advertisement section.

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OPEN BUILDING

BIDEFORD B.C. (a) 18 houses, Stucley Road, Pynes Lane Estate. (b) Borough Surveyor, Municipal Offices. (c) 2gns. (e) Sept. 4.

BOURNEMOUTH B.C. (a) Improvements to two flats, Stokewood Road Baths. (b) Borough Architect, Town Hall. (c) 2gns. (e) Sept. 8.

CALNE AND CHIPPENHAM R.C. (a) 8 houses, 4 bungalows and ancillary site works at Corsham Road, Lacock. (b) Messrs. Edwards and Webster, 10, St. Mary Street, Chippenham. (c) 2gns. (e) Sept. 29.

CROYDON B.C. (a) Repairing war-damaged Park Hill Water Tower. (b) Borough Engineer, Town Hall. (e) Sept. 13.

CROYDON B.C. (a) Rebuilding the dressing pavilion in Duppas Hill Recreation Ground. (b) Borough Engineer, Town Hall. (e) Sept. 13.

DUDLEY B.C. (a) 170 houses on Sledmere Estate. (b) Town Clerk, Council House. (c) 5gns. (d) Aug. 28.

ESSEX C.C. (a) First instalment of County Fire Brigade Workshops, Lexden. (b) County Architect, County Hall, Chelmsford. (d) Aug. 30.

HALESOWEN B.C. (a) 19 old people's dwellings on Fatherless Barn Estate. (b) Messrs. A. T. Butler and Partners, 31, Priory Street, Dudley. (c) 2gns. (d) Aug. 30.

ILFORD B.C. (a) Training Centre at Cricklefields Athletic Ground. (b) Borough Engineer, Town Hall. (c) 2gns. (e) Sept. 28.

IRLAM U.C. (a) Demolition of existing buildings and construction of a public convenience adjacent to the Coach and Horses Hotel, Liverpool Road, Cadishead. (b) Engineer and Surveyor, Council Offices. (c) 2gns. (e) Sept. 4.

LLANDILO R.C. (a) 4 houses. (b) Engineer and Surveyor, Council Offices, Crescent Road. (c) 2gns. (e) Sept. 4.

LONDON—LAMBETH B.C. (a) Erection of depot building, etc., Kennington Lane Depot. (b) Borough Engineer, Town Hall, Brixton Hill, S.W.2. (c) 2gns. (e) Sept. 16.

MONMOUTHSHIRE C.C. (a) Ground works and drainage and construction of foundations and erection of a new metal workshop, Artillery Technical School. (b) County Architect, Queen's Hill, Newport. (c) 2gns. (e) Sept. 15.



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N. IRELAND—BELFAST. (a) New Church of Our Lady of Perpetual Succour, Deanby Gardens, Old Park Road. (b) J. A. Tynan, 68, Royal Avenue. (c) £5. (e) Sept. 8.

N. IRELAND—Housing Trust. (a) 245 houses with engineering and ancillary works at Bangor, Co. Down. (b) Trust Offices, 12, Hope Offices, Belfast. (c) £3. (e) Sept. 8.

PETWORTH R.C. (a) 20 units of accommodation on housing estate at Nicholsfield, Loxwood. (b) Messrs. Godman and Kay, Milnwood, 13, North Parade, Horsham. (e) Sept. 13.

ROCHDALE B.C. (a) 90 dwellings and 16 garages on Falinge Hill Estate. (b) Town Clerk, Town Hall. (e) Oct. 11.

SCOTLAND — LOTHIANS AND PEEBLES JOINT POLICE COMMITTEE. (a) Several works in alterations to single men's quarters at Police Station, Musselburgh. (b) County Architect, Palmerston Place, Edinburgh.

SHIPLEY U.C. (a) Demolition of Old Palace Cinema, Briggate. (b) Council's Surveyor, Town Hall. (c) 2gns. (e) Sept. 6.

TOTNES B.C. (a) 17 houses and 13 bungalows on Harwell Estate. (b) Borough Engineer, Municipal Offices. (c) 2gns. (e) Sept. 25.

TRURO C.C. (a) 29 houses at Malabar. (b) City Engineer, Municipal Buildings. (c) 2gns. (e) Sept. 18.

WELLINGBOROUGH U.C. (a) 64 houses on Croyle Hall Estate. (b) Engineer and Surveyor, Council Offices. (c) 2gns. (e) Sept. 14.

WOKINGHAM R.C. (a) Conversion of Contractor's Office and Canteen into Social Club Room, Shinfield Rise Estate, nr. Reading. (b) Council's Surveyor, Council Offices, Shute End. (e) Sept. 6.

WORTLEY R.C. (a) 26 houses and 30 flats at Lane End Estate, Chapeltown. (b) Messrs. Husband and Co., 388 Glossop Road, Sheffield. (c) 5gns. (e) Sept. 13.

PLACED

Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. ↑ denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.

STOKE-ON-TRENT CORPORATION. (1) Housing contracts. (2) Bucknall and Bentilee Farm. (3) J. Kelly, Trentham, Stoke-on-Trent; J. H. Broadhurst and Sons, Ltd., and Tideswell Bros., Basford, Stoke-on-Trent. (4) £121,970, £62,113 and £98,657 respectively.

OLDBURY B.C. (1) 89 houses. (2) Brandhall Estate. (3) Titford Property Co., Ltd., Langley, Oldbury, Worcs. (4) £124,366.

CO. ANTRIM. (1) School. (2) Larne. (3) W. Logan and Sons, 171, Limestone Road, Belfast. (4) £224,466.

SHEFFIELD CORPORATION. (1) Ten blocks of maisonettes. (2) Greenhill-Broadway Estate. (3) J. W. Sivil, Ltd., 39, Canterbury Avenue, Sheffield, 10. (4) £172,587.

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IPSWICH B.C. (1) 74 houses. (2) Chantry Estate. (3) J. Gerrard and Sons, Ltd., Lady Lane, Ipswich. (4) £87,623.

SHEFFIELD CORPORATION. (2) 241 "Simms Belrock" houses. (2) Halifax Road. (3) W. J. Simms, Sons and Cooke, Ltd., Sherwood, Nottingham. (4) £331,943.

CHELTONHAM B.C. (1) 172 flats, 50 houses. (2) Arle and Hesters Way Estates. (3) Geo. Wimpey and Co., Ltd., Hammersmith, W.6. (4) £342,439.

BIRKENHEAD B.C. (1) 135 houses, 42 flats. (2) Overchurch Estate. (3) Thomas Warrington and Sons, Ltd., Ellesmere Port, Cheshire. (4) £220,930.

LEAMINGTON SPA B.C. (1) 107 houses. (2) Lillington Estate. (3) Geo. Wimpey and Co., Ltd., Hammersmith, W.6.

TROWBRIDGE B.C. (1) 102 "Reema" houses (2) Studley Green Estate. (3) Reema Construction Co., Ltd., Milford Manor, Salisbury, Wilts. (4) £143,757.

BLETCHELEY (BUCKS) U.D.C. (1) Two factories. (2) Industrial Estate. (3) George Dawson and Son (Contractors), Ltd., Linslade, Leighton Buzzard. (4) £25,614.

BOLLINGTON (CHES) U.D.C. (1) 38 houses. (2) Bollington Cross. (3) Vessey Bros., Ltd., Marple, Stockport. (4) £51,772.

CANTERBURY CITY COUNCIL (1) 19 houses and block of flats. (2) Whitehall. (3) J. and M. Smith (Ashford), Ltd., Station Road, Ashford, Kent. (4) £27,980.

CHICHESTER CITY COUNCIL (1) Shops and maisonettes. (2) Parklands. (3) H. Richardson, Emsworth, Hants. (4) £32,742.

WEST SUSSEX C.C. (1) Secondary school. (2) Cuckfield. (3) Hoad and Taylor, Ltd., 4, Market Square, Horsham.

NOTTINGHAM CORPORATION. (1) Second stage of abattoir reconstruction. (3) J. W. Stamp and Co., Ltd., Nuthall Road, Bobbers Mill, Nottingham. (4) £48,000.

WORCESTERSHIRE C.C. (1) Primary school. (2) Giggill. (3) W. Cooper and Son (Builders), Ltd., Blackheath, Staffs. (4) £49,545.

BERKSHIRE C.C. (1) Aged persons' hostel. (2) Maidenhead. (3) Y. J. Lovell and Son, Ltd., Gerrards Cross, Bucks, and London, W.2. (4) £38,191.

IPSWICH B.C. (1) 68 houses. (2) Chantry Estate. (3) Marco (Ipswich), Ltd., Ipswich. (4) £91,985.

MILFORD HAVEN U.D.C. (1) 46 houses. (2) Gellyswick site. (3) Geo. Wimpey and Co., Ltd., Hammersmith, W.6. (4) £61,363.

NORTHAMPTON B.C. (1) Assembly hall, library block, etc. (2) High School for Girls. (3) H. Martin, Ltd., Thenford Street, Northampton.

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SCUNTHORPE CORPORATION. (1) 57 flats. (2) Beechway, etc. (3) Bernard Pumphrey, Ltd., 2, Gillatt Street, Scunthorpe. (4) £97,784.

BERWICK B.C. (1) 62 houses. (2) Westfield site. (3) John H. Pierce, Osborne Road, Tweedmouth, Berwick.

BOOTH B.C. (1) 38 dwellings. (2) Netherton Estate. (3) Hawthorne Building and Construction Co., Ltd., Vulcan Street, Booth. (4) £53,284.

BOURNEMOUTH. (1) Methodist church. (2) Wallisdown. (3) F. Hoare and Sons, 8, Wharfside Road; Westbourne, Bournemouth. (4) £10,000.

BRIGHTON CORPORATION. (1) Farm buildings. (2) Patcham Court Farm. (3) A. C. Jenkins, Ltd., Barn Garage, Ladies Mile Road, Brighton. (4) £18,965.

CHELTENHAM. (1) Coach station for Black and White Motorways, Ltd. (2) St. Margaret's Road. (3) A. C. Billings and Co., Ltd., Winchcombe Street, Cheltenham.

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PLYMOUTH CITY COUNCIL. (1) 24 houses. (2) Chaucer Way. (3) Plymouth Co-op. Society, Ltd., Thorn Park, Plymouth. (4) £33,471. (1) 39 houses. (2) Manadon Vale. (3) Godolphin Co., Ltd., Chapel Street, Devonport. (4) £45,303. (1) 69 houses. (3) Direct labour. (4) £96,116.

BOURNEMOUTH B.C. (1) Development. (2) West Howe and Kinson Estates. (3) Clifford Sears, Ltd., Bournemouth. (4) £58,755 and £33,807.

N. IRELAND, CO. DOWN. (1) Church of the Immaculate Conception. (2) St. Nissi's College, Garron Tower. (3) Carey and Co., Ballymena, N. Ireland. (4) £29,174. (1) Health Centre. (2) Cregagh, Belfast. (3) Courtney and Co., Shaftesbury Avenue, Belfast. (4) £17,976.

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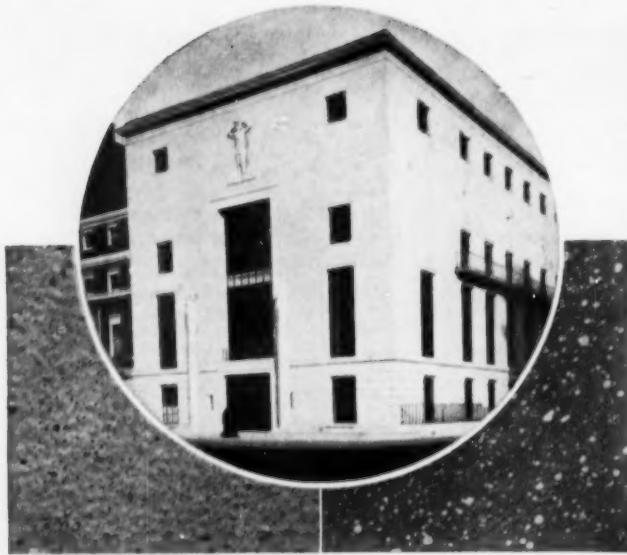
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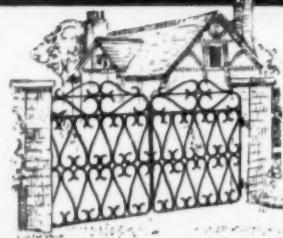
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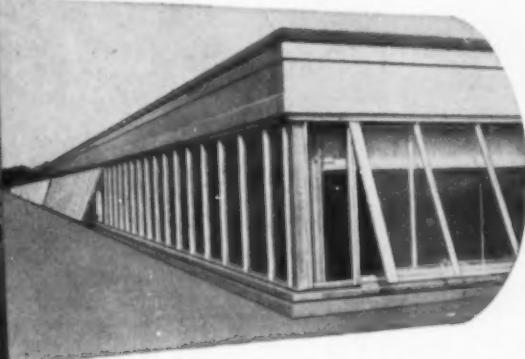
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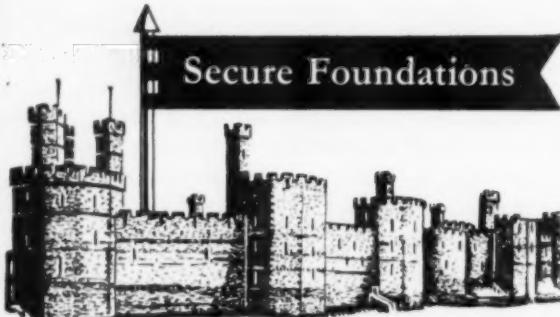
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The engagement of persons answering these advertisements must be made through the local office of the *Architect and Building News*. Applications for the appointment of a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order, 1952.

BOROUGH OF EDMONTON.

APPOINTMENT OF HIGHWAYS AND WORKS SUPERINTENDENT.

APPLICATIONS are invited from experienced persons for the above Established appointment in the Borough Engineer and Surveyor's Department.

Candidates should possess the examination diploma of the Institute of Works and Highways Superintendents or the Testamur of the Institution of Municipal Engineers or other similar technical qualifications, which will enable them to set out Public Works, order stores, plant and equipment and effectively control transport and labour. Experience with a Public Works Contractor will be considered as an additional qualification.

Salary A.P.T. VII plus London Weighting and an essential user car allowance. Housing accommodation is not available. Canvassing in any form will disqualify. Forms of application and list of duties can be obtained from the Town Clerk, Town Hall, Edmonton, N.9, and applications must be received by him before 5 p.m. on 6th September, 1954. [8213]

GOVERNMENT OF NORTHERN IRELAND.

MINISTER OF FINANCE—DIRECTORATE OF WORKS.

ARCHITECTURAL ASSISTANTS.

APPLICATIONS are invited from Architectural Assistants with recognised training and fair experience for unestablished posts in the Chief Architect's Branch. The employment will provide useful experience for those seeking to obtain professional qualifications. Successful candidates will be eligible for consideration for permanent and pensionable posts as vacancies arise and for promotion to a higher grade on their obtaining full professional qualifications.

The inclusive annual salary scale is £400 rising to £670. The starting pay of candidates who have passed the R.I.B.A. Intermediate Examination will be £505. Entry points for other candidates will be fixed in relation to their ages, e.g., £400 at age 21 to £480 at age 25 or over.

Preference will be given to candidates who served in H.M. Forces in the 1939-45 wars, provided that such candidates are, or within a reasonable time will be, able to discharge the duties efficiently.

Candidates who are invited to attend for interview will be recouped cost of railway and steamer fare at minimum rates.

Applications, giving date of birth and full details of training and qualifications, should be sent to the Director of Establishments, Ministry of Finance, Stormont, Belfast. [8262]

BASILDON DEVELOPMENT CORPORATION.

APPLICATIONS are invited for the appointment of GRADE II PLANNER on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range £1,135-£1,340 according to ability and experience.

The successful applicant will set up and take charge of the planning and design team for the immediate development of the New Town Centre, to serve a population of 80,000. The work will include the translation of the present draft schemes into major building projects and the conduct of negotiations with the various authorities and interests concerned. Building work on phase I of the Centre will commence early in 1956. Experience in this type of work is essential and candidates must be school-trained qualified Architects. A town planning qualification is desirable.

The appointment is subject to the provisions of the Local Government and Other Officers Superannuation Act and to medical examination.

A house in the New Town may be available. Applications, on the special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, September 3, 1954, and the envelope endorsed "Grade II Planner." [8265]

ANNOUNCEMENTS

• CONTRACTS • TENDERS

Close for press 1st post Monday for following Thursday Issue

APPOINTMENTS—contd.

BASILDON DEVELOPMENT CORPORATION.

APPLICATIONS are invited for the post of MODEL MAKER, Grade VA, on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range £510-£560.

The successful applicant will construct topographical, landscape and building models to various scales for housing, industrial and Town Centre projects. Previous experience of this type of work, together with the ability to read technical drawings is essential.

The appointment is subject to the provisions of the Local Government and Other Officers Superannuation Act and to medical examination.

A house in the New Town may be available.

Applications, on the special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, September 3, 1954, and the envelope endorsed "Model Maker." [8264]

BASILDON DEVELOPMENT CORPORATION.

APPLICATIONS are invited for the post of ASSISTANT ARCHITECT, Grade IV A, on the staff of the Chief Architect/Planner, Noel Tweddell, A.R.I.B.A., at a salary within the range of £660-£760.

The successful applicant will work in a group in the Housing Section and must have experience in house design, preparation of working drawings and supervision of contracts.

The appointment is subject to the qualification of A.R.I.B.A. and to the provisions of the Local Government and Other Officers Superannuation Act and to medical examination.

A house in the New Town may be available.

Applications, on the special form (obtainable from the Chief Architect), must be made to the General Manager, Basildon Development Corporation, Gifford House, Basildon, Essex, by Friday, September 3, 1954, and the envelope endorsed "Assistant Architect, Grade IV A." [8263]

LONDON COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

VACANCIES for ARCHITECTS, Grade III (up to £892 10s), and ARCHITECTURAL ASSISTANTS (up to £739 10s) in Schools and Housing Divisions.

Particulars and application forms from Architect (AR/EK/A/3), County Hall, S.E.1. (1058). [0146]

WASHINGTON URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for the above-named post at a salary within the A.P.T. Grades of the National Scheme of Conditions of Service according to qualifications and experience.

The appointments will be subject to the provisions of the Local Government Superannuation Act, the National Scheme of Conditions of Service and to the satisfactory passing of a medical examination.

Housing accommodation will be provided, if required.

Forms of application may be obtained from the undersigned and should be returned on or before the 25th September, 1954.

ARTHUR C. JONES,
Clerk of the Council.

Council Chambers,
Washington,
Co. Durham.
August 17, 1954.

[8270]

BINGLEY URBAN DISTRICT COUNCIL.

APPOINTMENT OF CHIEF ARCHITECTURAL ASSISTANT, GRADE VI.

PREVIOUSLY advertised 5th and 12th August, 1954. Closing date amended to 31st August, 1954. [8271]

APPOINTMENTS—contd.

HOUGHTON-LE-SPRING URBAN DISTRICT COUNCIL.

ARCHITECTURAL ASSISTANT.

APPLICATIONS are invited for this appointment, which is subject to the National Conditions of Service and to the Local Government Superannuation Acts. The salary will be fixed within Grade V of the A.P.T. Division according to qualifications and experience.

Housing accommodation will be provided if required.

Applications, stating age, qualifications and experience, together with particulars of two referees, must reach me not later than the 28th August, 1954.

W. W. PLEWS,
Clerk of the Council.

Broadway,
Houghton-le-Spring,
Co. Durham.
17th August, 1954.

[8275]

PADDINGTON BOROUGH COUNCIL.

REQUIRE BUILDING SURVEYING ASSISTANT, £520-£115 p.a. Practical knowledge of building construction, experience in surveying and levelling; the repair, adaptation and conversion of civic and residential properties, capable of preparing plans, specifications and estimates of costs in respect of those works, and their supervision. Candidates at advanced stage of preparation for R.I.C.S. intermediate or equivalent examination preferred.

Applications (quoting A.175), stating age, qualification, experience and names of three referees, to the undersigned by 11th September, 1954.

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington,
W.2.

[8286]

HAMPSHIRE.

APPLICATIONS are invited for the appointment of Assistant Architect, Grade VI (£695-£760), in the County Architect's Department. Candidates must be Registered Architects, preferably A.R.I.B.A., with good general experience in the design and construction of Public Buildings.

The appointment is pensionable, subject to satisfactory Medical report, and will be terminable by three months' notice on either side. In approved cases the County Council are prepared to assist newly appointed staff to meet removal and other expenses.

Applications, on forms obtainable from the County Architect, The Castle, Winchester, should be returned to him by the 11th September. [8279]

COUNTY BOROUGH OF EAST HAM.

ENGINEERING ASSISTANT, GRADE V, £620-£670.

SENIOR ARCHITECTURAL ASSISTANT, GRADE VI, £695-£760.

London Weighting is paid in addition. Salary in excess of the minima may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms returnable by 10th September, 1954, from the Town Clerk, Town Hall, East Ham, E.6. [8280]

COUNTY BOROUGH OF BURY.

APPLICATIONS are invited for the appointment of ARCHITECTURAL ASSISTANT up to Grade A.P.T. V (£620-£670) according to qualifications and experience. The appointment is subject to the Local Government Superannuation Act, 1937, and medical examination.

Applications, stating age, details of training, qualifications and experience, together with the names and addresses of two persons to whom reference may be made, must reach me not later than 4th September, 1954.

EDWARD S. SMITH,

Town Clerk.

Town Hall,
Bury.
19th August, 1954.

[8284]

APPOINTMENTS—contd.

BELFAST EDUCATION COMMITTEE.

COLLEGE OF TECHNOLOGY.

Principal: D. H. Alexander, O.B.E., M.Sc., Wh.Sch., M.I.Mech.E., M.I.Mar.E.

COLLEGE OF ART.

SENIOR LECTURER IN ARCHITECTURE.

APPLICATIONS are invited for the position of SENIOR LECTURER in ARCHITECTURE. Applicants must have followed a full-time course at a recognized School of Architecture, and should hold a degree, or equivalent qualification, in Architecture. They must also be Associates of the Royal Institute of British Architects, and have had adequate office experience.

The salary attached to the position is £900 per annum, rising by annual increments of £25 to £1,100 per annum.

Further particulars and forms of application may be obtained from the Principal, College of Technology, Belfast, with whom applications must be lodged not later than THURSDAY, 30th September, 1954.

J. STUART HAWNT,
Director of Education.
[8285]

AUCTION SALE

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Knightsbridge, London, S.W.1 (Kensington 1490).
[8276]

EDUCATIONAL

UNIVERSITY OF MANCHESTER.

THE next Session commences on Thursday, 7th October, 1954.
[8277]

MISCELLANEOUS SECTION

RATE: 1/6d. per line, minimum 3/-, average line 6 words. Each paragraph charged separately.

BOX NOS. add 2 words plus 1/- for registration and forwarding replies which should be addressed c/o, "The Architect & Building News," Dorset House, Stamford Street, London, S.E.1.

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No responsibility accepted for errors.

ARCHITECTURAL APPOINTMENTS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if applicable to the post. If a man aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order, 1952.

ARCHITECTURAL assistants required for Watford office, five-day week; salary £500-£600.—Box 7423.
[8283]

ARCHITECT'S assistant required for West End office.—Write, stating salary required and full particulars, to Box 7386.
[8278]

EXPERIENCED Assistant Architect for busy Birmingham practice; knowledge of hospital work an advantage. Box 7357.
[8269]

ARCHITECTURAL Assistants urgently required, Intermediate standard or above, for work of an interesting character; good salary.—Box 7356.
[8267]

ARCHITECTURAL APPOINTMENTS VACANT—Contd.

ARCHITECTURAL Assistants required, Salary £600-£700 p.a.—Apply in writing, stating age, training and experience to the Chief Staff Architect, Ilford Ltd., Romford, Essex.
[8252]

HIGH WYCOMBE firm of architects requires an architectural assistant, preferably qualified, salary according to experience.—Write, giving age and particulars, to Box 7361.
[8272]

ARCHITECTURAL Assistants, not less than two years' experience required; salary according to experience and qualifications. Apply to W. Curtis Green, R.A., Son & Lloyd, 5, Pickering Place, St. James's, S.W.1.
[8268]

ARCHITECTURAL assistant required with some office experience.—Apply briefly by letter, stating age and all particulars, to Thompson, Walford & Fielder, F.A.R.I.B.A., 1, Leadenhall St., London, E.C.3.
[8274]

DAUGHTSMAN required for three months, starting September, to prepare architectural drawings for publication; salary £8-£10 per week; architectural student, about Intermediate standard preferred. Box 7401.
[8282]

ARCHITECTURAL draughtsman required, capable of carrying out working drawings and specification.—Applicants should apply in writing, giving details of experience, age, etc., to Personnel Department, Albert E. Reed & Co., Ltd., Aylesford Paper Mill, Larkfield, Nr. Maidstone, Kent.
[8235]

ARCHITECTS require experienced assistant of Intermediate R.I.B.A. standard; interesting and varied work, excellent office conditions, staff pension scheme; must be good draughtsman with interest in modern design; salary not less than £400 per annum.—Apply in writing, stating age, experience and salary required, to Philip Skelcher & Partners, 17, Poplar Rd., Solihull, Birmingham, [8281]

SITUATIONS VACANT

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order, 1952.

YOUNG designer to design a range of contemporary fire-places on freelance basis for leading glazed tile manufacturer.—Box 6982.
[8203]

YOUNG man required for part time work as Architect to manufacturers in Manchester. Please give details of commercial experience and qualifications to Box 7261.
[8251]

BUILDING manager/general foreman for leading British contractors, British Guiana; experience speculative housing; salary £1,000 p.a.; free fares, accommodation, etc. Apply, quoting OSS 72/2, Overseas Technical Service, 5, Welton Crescent, Harrow.
[8273]

SECRETARY to the junior partner required by small but busy firm of architects three minutes Holborn Station; would also be reqd. to do other shorthand-typing.—Please write, giving experience and salary reqd., to Clifford Culpin & Partner, 3, Southampton Place, W.C.1.
[8287]

APPLEBY-FRODINGHAM STEEL CO., Applesby, Lincs, have a vacancy for an ARCHITECTURAL DAUGHTSMAN; applicants must be capable draughtsmen with a good knowledge of modern building construction and finishes; staff pension scheme and welfare facilities available.—Applicants should apply in writing, giving age, full details of previous experience, and salary required, to the Works Employment Officer.
[8266]

FOR SALE

ALL hardwood mouldings, plain and embossed, embossed ornaments and dowels; send for catalogue and to-day's lowest trade prices. Doree's Moulding Mills, Ltd., 60, Fownall Road, Dalston, E.8. Classad 1543/4.
[8242]

WATERPROOF Clothing. New selected ex-Navy full-length oilskins, shoulders wool lined, excellent garments; £1/12/6, guaranteed carriage paid.—Hill, Witham Rd., Romford.
[8214]

NISSEN HUTS, ETC.

TWO new Marston steel-framed buildings, 200ft long x 135ft wide in three bays, 45ft wide x 25ft high to eaves, complete with sheeting, gutters, downpipes, doors, windows, etc.

Two ditto buildings, 200ft long x 90ft wide in two bays x 16ft high to eaves, complete as above. Overhead crane gantries are available for these buildings.

Burrill, 18, Dumfries Place, Cardiff. Tel.: Cardiff 26100.
[8230]

EX-ARMY Nissen and other buildings available; also, manufactured buildings.—Universal Supplies (Belvedere) Ltd., Crabtree Manorway, Belvedere, Kent. Erith 2948.
[8145]

BUSINESS & PROPERTY

PRACTICE required to purchase; London or West Country; Chartered Architect and Chartered Surveyor.—Box 7044.
[8221]

FACTORY building for sale; Pentad hangar, 185ft long x 123ft wide (clear span) x 25ft clear height with sliding doors the whole width of each end, complete steelwork including all bolts and plates for immediate erection; delivered to your site at the very low figure of £3,595 for quick sale; also T1 and T2 large hangars at most attractive prices.—Mole & Bray, Ltd., Stourport-on-Severn. Tel. 361-2.
[8283]

MISCELLANEOUS

NOTTINGHAM area.—Workmen's transport—let us quote you.—A. Camm, 25, Churchfield Lane, Nottingham. Tel. 77914, 79466. Contractors to the leading contractors.
[8164]

TARPAULINS repaired and reconditioned; tar-paulins, 20ft x 14ft, £5/15 each; new green quality jute, 18ft x 12ft, £6 each; 18ft x 15ft, £7/10 each.—Hill, Witham Rd., Romford. Romford 4453.
[8215]

PLANT FOR HIRE

CHASESIDE mechanical shovels, Major type, by day, week or contract, with drivers; tipping lorries supplied if required with shovels.—Henry Froud, Ltd., Primrose Wharf, Tunnel Ave., Greenwich, S.E.10. Tel. Greenwich 0072-3.
[8138]

PLANT Hire: For site clearance and earthmoving job in Hatfield, Welwyn Garden City and Stevenage New Town areas. Challenger II and III, and Wolf Excavators available for short or long hire. H. Brazier, Ltd., Watton Road Depot, Ware, Herts. Telephone 151.
[8179]

PRACTICES

ARCHITECT wishes to purchase practice, London or Provinces. Not north of Manchester nor west of Bristol.—Full particulars, please, Box 7260.
[8256]

AGENTS

AGENTS wanted world-wide.

REVOLUTIONARY form work system for concrete construction 9-ply form work boards. Tubular steel props.—Write at once for full description to Export Manager, A/S Stormbull, Storgt. 10 4, Oslo, Norway.
[8244]

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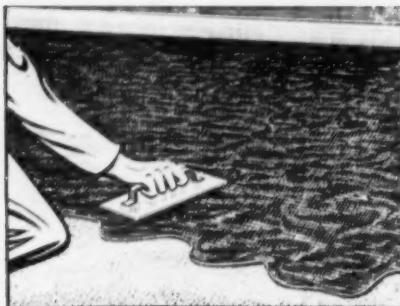
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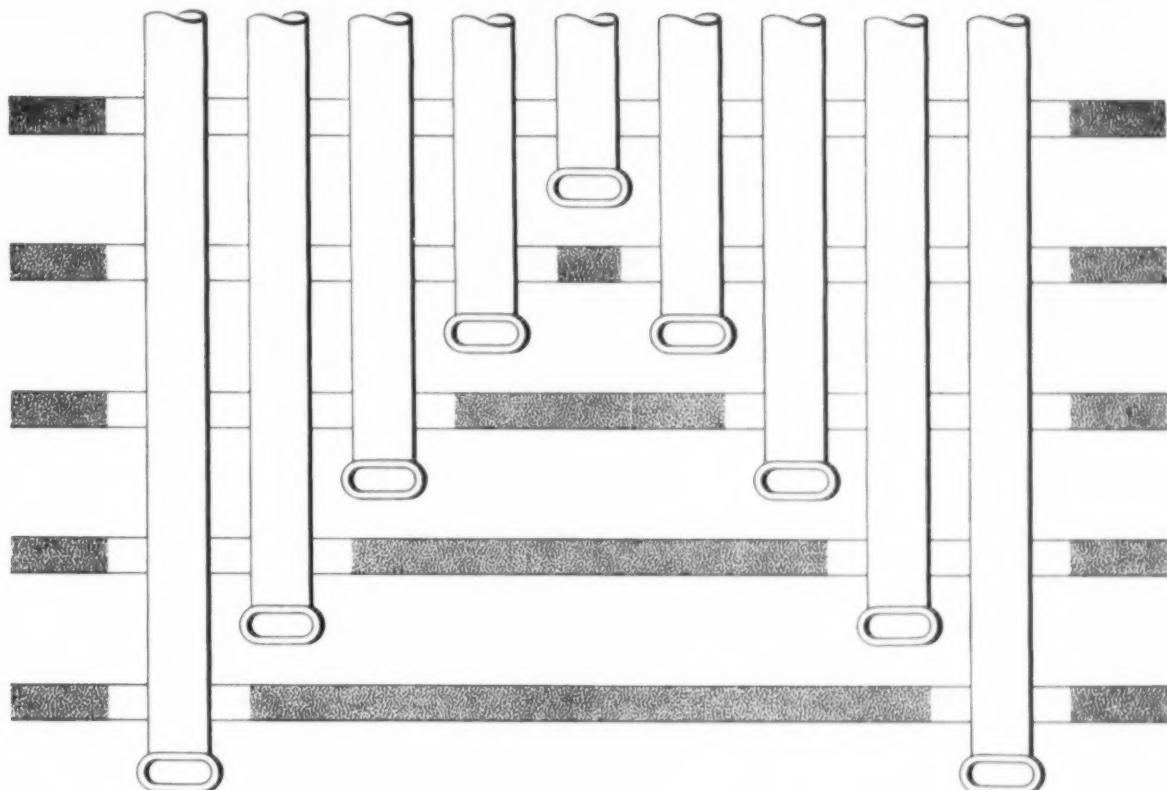
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We would like to receive the latest information on flue design.

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